



AI & CLOUD AI PROFESSIONAL ACADEMY



AI & CLOUD AI PROFESSIONAL ACADEMY

The AI & Cloud AI Professional Academy from Arcitura provides formal education and accreditation programs dedicated to contemporary AI technology and practices, including predictive AI, generative AI and cloud-based AI, as well as AI engineering and architecture.

For more information, visit the AI & Cloud AI Professional Academy home page: www.arcitura.com/ai

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SELF-STUDY



ARCITURA eLEARNING OPTIONS

To give you the most flexibility to achieve your learning goals and accommodate your preferences, this course is made available via two Arcitura eLearning solutions: An interactive environment with graded exercises and a graded self-test, as well as a study kit account that supports online/offline access and custom annotations.



ONLINE COACHING

Arcitura Certified Trainers are available to provide online coaching services that can be scheduled on an hourly basis. Scheduling is available in all time zones and is based on your preferences and trainer availability.



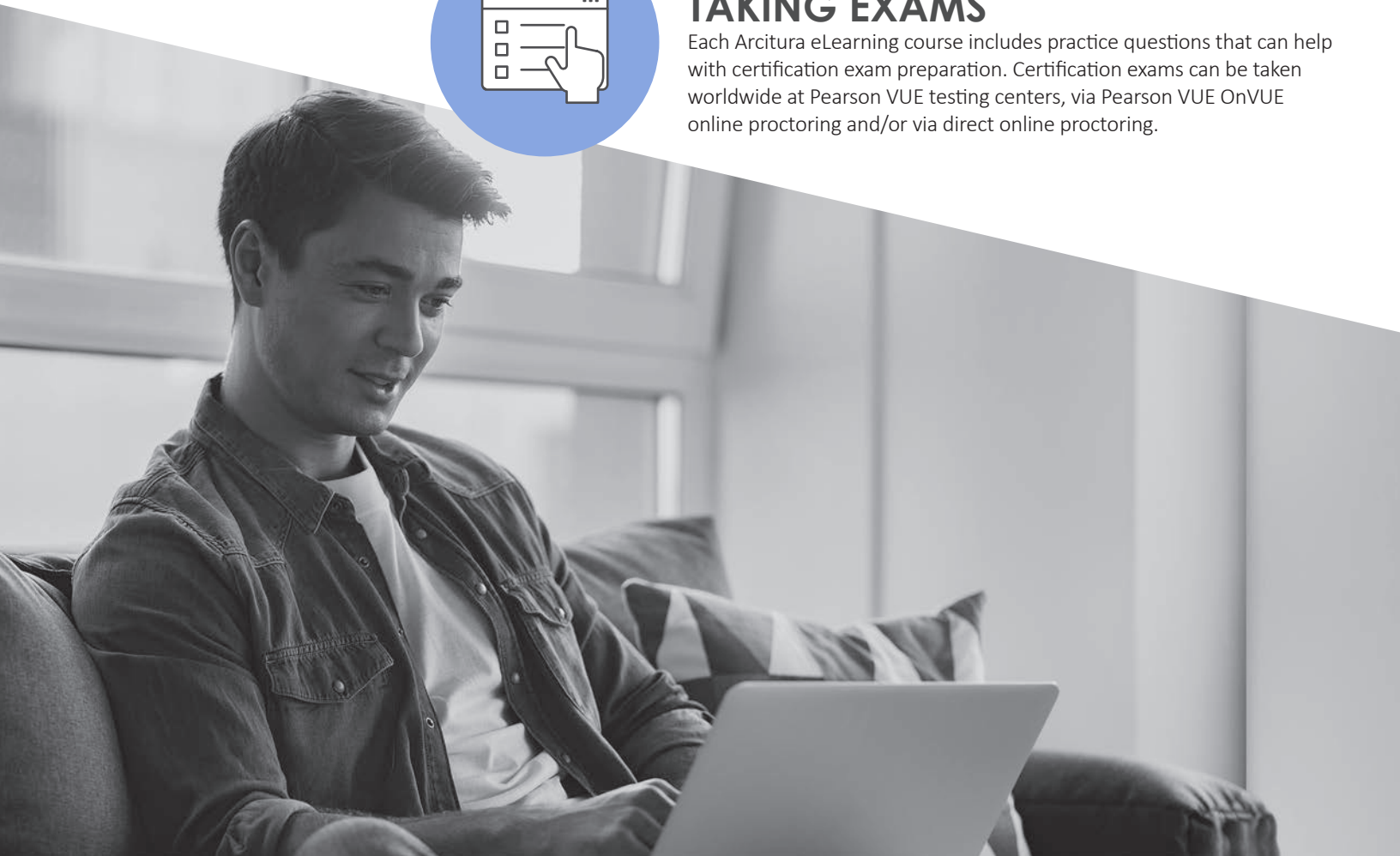
ENHANCED SELF-STUDY WITH **ADD-ONS**

Arcitura eLearning courses can be supplemented with downloadable course files, printed course materials and other add-on resources.



EXAM PREPARATION & **TAKING EXAMS**

Each Arcitura eLearning course includes practice questions that can help with certification exam preparation. Certification exams can be taken worldwide at Pearson VUE testing centers, via Pearson VUE OnVUE online proctoring and/or via direct online proctoring.





WORKSHOPS

Onsite Classroom

Virtual Classroom



ONSITE WORKSHOPS

Private onsite workshops can be delivered by Certified Trainers from Arcitura and authorized training partners for both small and large groups. Each workshop participant can receive access to the full Arcitura eLearning course materials. Each workshop agenda, format and schedule can be tailored to client requirements. Onsite workshops allow for the option to deliver onsite paper-based exams.



VIRTUAL WORKSHOPS

Private virtual workshops can be delivered by Certified Trainers from Arcitura and authorized training partners for small and large groups, as well as individual participants. Each workshop participant can receive access to the full Arcitura eLearning course materials. Each workshop agenda, virtual delivery platform and schedule can be tailored to client requirements. In addition to a typical delivery schedule based on consecutive workshop days, virtual workshops allow for a delivery schedule to be distributed as shorter sessions across weeks or months.



ONLINE COACHING

Arcitura Certified Trainers are available to provide online coaching services that can be scheduled on an hourly basis. Scheduling is available in all time zones and is based on your preferences and trainer availability. For workshop participants, coaching sessions can be scheduled during or after a given workshop, for groups or individuals.



EXAM PREPARATION & TAKING EXAMS

Onsite and virtual workshop participants can receive complimentary practice exam questions as part of their eLearning course accounts. Certified Trainers can supervise and provide guidance for participants completing the self-tests and the Exam Prep Kit practice questions provided in the eLearning accounts. Certification exams can be taken worldwide at Pearson VUE testing centers, via Pearson VUE OnVUE online proctoring and/or via direct online proctoring.



The AI & Cloud AI Professional Academy from Arcitura provides formal education and accreditation programs dedicated to contemporary AI technology and practices, including predictive AI, generative AI and cloud-based AI, as well as AI engineering and architecture. Exams are available worldwide via online proctoring and on-site delivery by Certified Trainers. Achieving a passing grade on the required exam(s) achieves a certification for which a digital accreditation certificate is automatically issued by Arcitura and a digital certification badge is issued by Acclaim/Credly.

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QUESTIONS?

Contact us at: info@arcitura.com





A Certified Predictive AI Specialist has gained a proven understanding of predictive AI practices and systems, including model training, learning techniques and neural networks.



A Certified Generative AI Specialist understands the training, utilization and management of generative AI systems, as well as related algorithms and models.



A Certified AI Engineer has proven knowledge of AI systems design, neural network engineering and engineering practices associated with a broad range of predictive AI and generative AI models and networks.



A Certified AI Architect has proven knowledge of predictive AI and generative AI systems technology architecture, implementation and infrastructure requirements, as well as integration techniques of both systems and supporting data management platforms.



A Certified AI Consultant has proven knowledge in the most important aspects of predictive AI and generative AI utilization, implementation and architecture.



A Certified AI Chatbot Specialist understands how and where AI-driven chatbot programs can be effectively utilized to establish a variety of human language interfaces and communication styles, as well as a range of proven design techniques for successfully integrating chatbot systems within organization enterprise environments.



A Certified NLP Engineer has proven knowledge of natural language processing models and techniques, as well as a range of supporting applications, practices and models associated with establishing language and sentiment in conversational workflows.

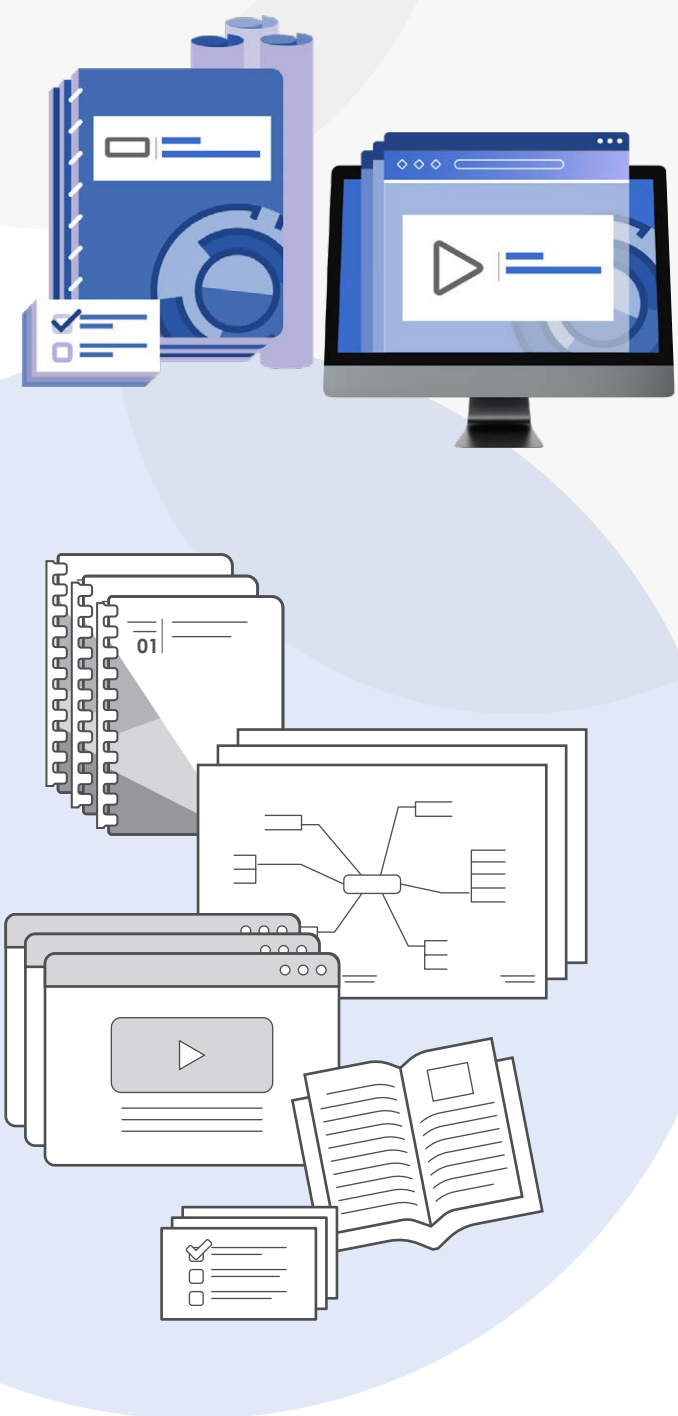


A Certified Cloud AI Professional has a proven understanding of cloud-based AI technology, infrastructure, automation and services, in support of model training, as well as AI system and data management.



A Certified Cloud AI Architect has in-depth, proven knowledge of AI-specific cloud architectural models, design patterns and infrastructure to help realize the design, implementation and integration of enterprise- grade, cloud-based AI solutions.





Predictive AI

Provides essential coverage of predictive AI concepts, models and best practices. Common AI analysis and analytics practices are explored within a range of business scenarios, and in-depth coverage of predictive AI model training, learning and data filtering and processing techniques is provided.



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MODULE 01 | Fundamental Predictive AI

Illustrates how predictive AI can be used and applied in a range of business applications, as well as essential coverage of predictive AI practices and systems. The module explores the most common learning approaches and functional areas that AI systems are used for. All of the content is authored in easy-to-understand, plain English.



MODULE 02 | Advanced Predictive AI

Provides insight into how predictive AI systems work by exploring common techniques for learning, data processing and manipulation, and AI system performance management. The course module does not cover any mathematical formulas or programming and is intended for general IT professionals.



MODULE 03 | Predictive AI Lab

Provides a series of case-study driven, lab-style exercises and problems that are designed to test your ability to apply your knowledge of topics covered in previous modules. Completing this lab helps reinforce understanding of preceding topics and further demonstrates how different practices and technologies can be applied together as part of greater solutions.

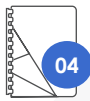


Generative AI

Provides essential coverage of generative AI concepts, models, best practices, and neural networks, including Generative Adversarial Networks (GANs), Variational Encoders (VAEs) and Transformer models. The course is focused on exploring the application of generative AI within a range of business scenarios.



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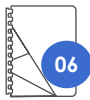
MODULE 04 | Fundamental Generative AI

Explores the application of generative AI within a range of business scenarios and provides fundamental coverage of generative AI concepts, models, best practices and neural networks, including Generative Adversarial Networks (GANs), Variational Encoders (VAEs) and Transformer models. All of the content is authored in easy-to-understand, plain English.



MODULE 05 | Advanced Generative AI

Covers a range of common generative AI networks, models and techniques, including specialized neural networks and practices for managing and optimizing generative AI systems and model training processes. The course module does not cover any mathematical formulas or programming and is intended for general IT professionals.



MODULE 06 | Generative AI Lab

Provides a series of case-study driven, lab-style exercises and problems that are designed to test your ability to apply your knowledge of topics covered in previous modules. Completing this lab helps reinforce understanding of preceding topics and further demonstrates how different practices and technologies can be applied together as part of greater solutions.

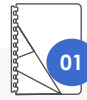


AI Engineering

Covers a range of fundamental and advanced AI engineering topics, including a neural network design, data preprocessing and feature engineering, model evaluation, validation and scaling, as well as predictive and generative AI models, explainability techniques and transfer learning.



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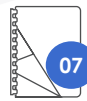
MODULE 01 | Fundamental Predictive AI

Illustrates how predictive AI can be used and applied in a range of business applications, as well as essential coverage of predictive AI practices and systems. The module explores the most common learning approaches and functional areas that AI systems are used for. All of the content is authored in easy-to-understand, plain English.



MODULE 04 | Fundamental Generative AI

Explores the application of generative AI within a range of business scenarios and provides fundamental coverage of generative AI concepts, models, best practices and neural networks, including Generative Adversarial Networks (GANs), Variational Encoders (VAEs) and Transformer models. All of the content is authored in easy-to-understand, plain English.



MODULE 07 | Fundamental AI Engineering

Delves into a range of AI engineering practices and techniques, and further provides a detailed introduction of neural network architecture components. The course module establishes a step-by-step process for assembling an AI system, thereby illustrating how and when different practices and components of AI systems with neural networks need to be defined and applied. Finally, the module provides a set of key principles and best practices for AI projects.



MODULE 08 | Advanced AI Engineering

Covers a series of practices for preparing and working with data for training and running contemporary AI systems and neural networks. It further provides techniques for designing and optimizing neural networks, including approaches for measuring and tuning neural network model performance. The practices and techniques can be applied individually or in different combinations to address a range of common AI system problems and requirements.



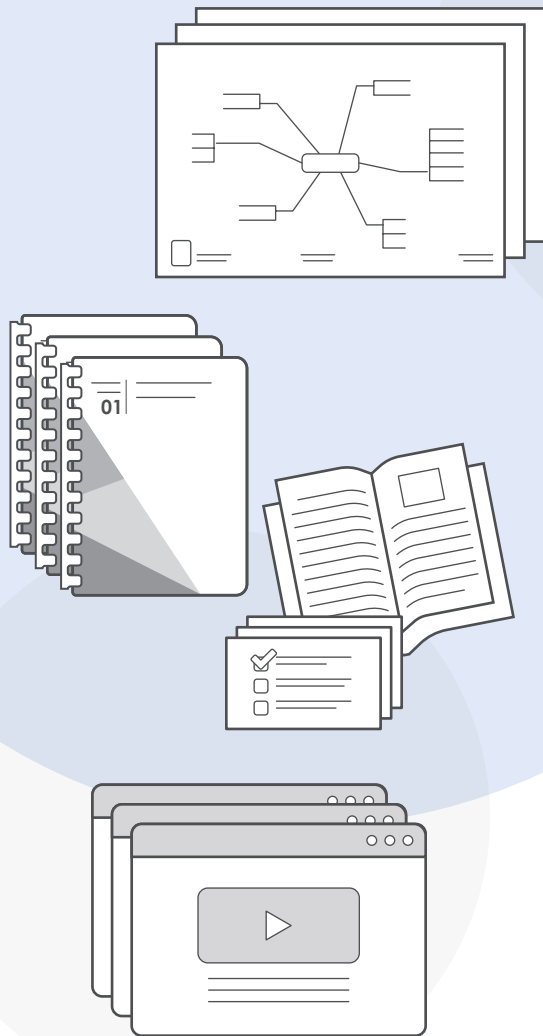
MODULE 09 | AI Engineering Lab

Provides a series of case-study driven, lab-style exercises and problems that are designed to test your ability to apply your knowledge of topics covered in previous modules. Completing this lab helps reinforce understanding of preceding topics and further demonstrates how different practices and technologies can be applied together as part of greater solutions.



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AI Architecture & Design

Covers fundamental and advanced AI systems and technology architecture topics, including design principles, distributed AI computing and scalability and reliability infrastructure, decision-making logic, performance optimization, security and enterprise architecture integration.



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MODULE 01 | Fundamental Predictive AI

Illustrates how predictive AI can be used and applied in a range of business applications, as well as essential coverage of predictive AI practices and systems. The module explores the most common learning approaches and functional areas that AI systems are used for. All of the content is authored in easy-to-understand, plain English.



MODULE 04 | Fundamental Generative AI

Explores the application of generative AI within a range of business scenarios and provides fundamental coverage of generative AI concepts, models, best practices and neural networks, including Generative Adversarial Networks (GANs), Variational Encoders (VAEs) and Transformer models. All of the content is authored in easy-to-understand, plain English.



MODULE 10 | Fundamental AI Architecture

Covers core frameworks and technology architecture and infrastructure of predictive and generative AI system implementations. The module includes coverage of neural networks processing requirements and computational considerations pertaining to AI system model training and production processing, as well as AI system data flow and processing optimization and scalability.



MODULE 11 | Advanced AI Architecture

Provides an exploration of different AI system architecture designs and addresses complex topics such as hyperparameter tuning and advanced optimization strategies for large-scale neural networks. The module also covers the intricacies of transfer learning and multi-modal AI systems, as well as distributed computing, explainability and adversarial robustness in AI models.



MODULE 12 | AI Architecture Lab

Provides a series of case-study driven, lab-style exercises and problems that are designed to test your ability to apply your knowledge of topics covered in previous modules. Completing this lab helps reinforce understanding of preceding topics and further demonstrates how different practices and technologies can be applied together as part of greater solutions.



AI Professional Consulting

Provides essential coverage of the most important and relevant topics associated with predictive AI, generative AI, as well as fundamental AI engineering and architecture. Also includes business case development techniques for AI projects and change management and AI adoption strategies.



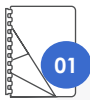
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AI Chatbot Concepts & Design

Covers concepts and technology related to AI-driven chatbot design and deployment, including natural language processing, conversational flows and dialogue systems, user intent recognition, Large Language Models (LLMs) and Transformer network text generation, sentiment analysis and dialogue management techniques.



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MODULE 01 | Fundamental Predictive AI

Illustrates how predictive AI can be used and applied in a range of business applications, as well as essential coverage of predictive AI practices and systems. The module explores the most common learning approaches and functional areas that AI systems are used for. All of the content is authored in easy-to-understand, plain English.



MODULE 04 | Advanced Predictive AI

Explores the application of generative AI within a range of business scenarios and provides fundamental coverage of generative AI concepts, models, best practices and neural networks, including Generative Adversarial Networks (GANs), Variational Encoders (VAEs) and Transformer models. All of the content is authored in easy-to-understand, plain English.



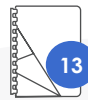
MODULE 07 | Fundamental AI Engineering

Delves into a range of AI engineering practices and techniques, and further provides a detailed introduction of neural network architecture components. The course module establishes a step-by-step process for assembling an AI system, thereby illustrating how and when different practices and components of AI systems with neural networks need to be defined and applied. Finally, the module provides a set of key principles and best practices for AI projects.



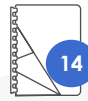
MODULE 10 | Fundamental AI Architecture

Covers core frameworks and technology architecture and infrastructure of predictive and generative AI system implementations. The module includes coverage of neural networks processing requirements and computational considerations pertaining to AI system model training and production processing, as well as AI system data flow and processing optimization and scalability.



MODULE 13 | Fundamental AI Chatbot Concepts & Design

Introduces essential topics pertaining to how AI-driven chatbots function and how they can be utilized in real-world scenarios. Basic concepts are covered to establish the inner workings of chatbots and the different types of chatbots that are commonly used. Basic design approaches are introduced to illustrate how AI-driven chatbots can be integrated within an organization.



MODULE 14 | Advanced AI Chatbot Concepts & Design

Continues to delve into the technology and functionality of AI-driven chatbots by exploring more complex utilization scenarios, as well as more design approaches and back-end integration options.



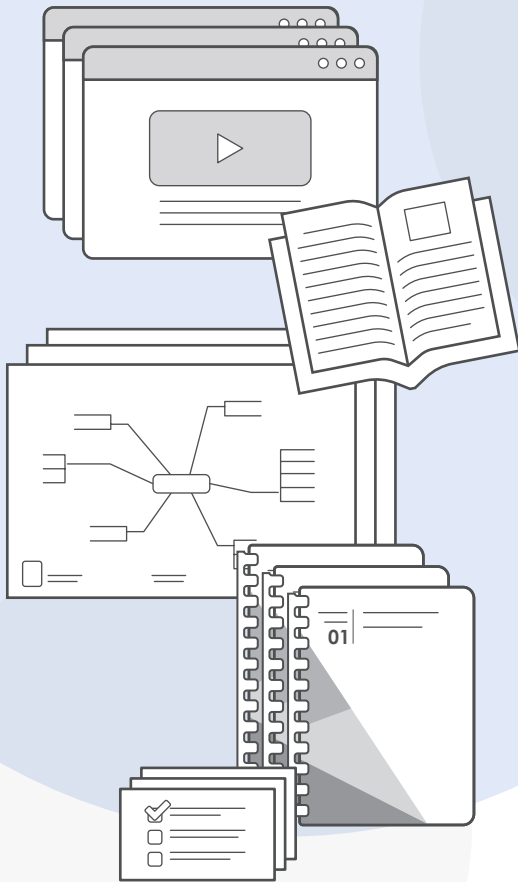
MODULE 15 | AI Chatbot Concepts & Design Lab

Presents participants with a series of exercises and problems that are designed to test their ability to apply their knowledge of topics covered in previous modules. Completing this lab will further improve proficiency in AI-driven chatbot concepts, technologies and practices, as they are applied and combined to solve a series of real-world problems.



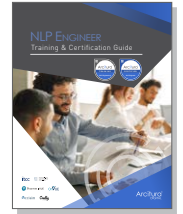
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NLP Engineering

Provides in-depth coverage of natural language processing, NLP linguistics, text preprocessing and normalization and semantic analysis techniques, as well as Transformer models, sentiment analysis and emotion detection, dialogue systems and machine translation and transliteration.



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MODULE 16 | Fundamental NLP Engineering

Begins with an exploration of how NLP solutions can be used by businesses, as well as common associated challenges and risks. The module then continues with covering essential topics, such as NLP text processing, tokenization, stemming and lemmatization, as well as linguistic data preparation, common NLP models and libraries, and addressing bias and fairness concerns.



MODULE 17 | Advanced NLP Engineering

Cover advanced topics, such as contextual embeddings, attention mechanisms, transformer models, as well as sequence-to-sequence models for tasks like summarization and translation. Also covered are methods for handling linguistic subtleties, sarcasm and ambiguity in natural language, and strategies to address challenges such as cross-lingual NLP and domain-specific language understanding.



MODULE 18 | NLP Engineering Lab

Provides a series of case-study driven, lab-style exercises and problems that are designed to test your ability to apply your knowledge of topics covered in previous modules. Completing this lab helps reinforce understanding of preceding topics and further demonstrates how different practices and technologies can be applied together as part of greater solutions.



Cloud AI Fundamentals

Provides essential coverage of concepts and technologies for cloud-based AI systems, including infrastructure resources for reliability and scaling, AI data management, AI system deployment models, using containerization with AI systems, cloud AI serverless architecture, as well as integration of AI services with cloud-native applications.



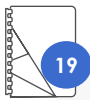
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Cloud AI Architecture

Covers the technology architecture of cloud-based AI systems, including cloud automation and infrastructure relevant to AI processing, serverless architectural models for AI, AI system monitoring, logging and auditing, AI in multi-cloud and hybrid architectures, as well as AI-related cloud services and infrastructure models.

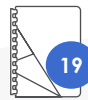


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MODULE 19 | Fundamental Cloud AI Technology & Automation

Focuses on cloud computing technology, infrastructure and practices specific to establishing and running cloudbased predictive AI and generative AI solutions. Topics include GPU and TPU for AI learning workloads, cloud-based AI services such as AWS SageMaker, Azure Machine Learning and Google AI Platform for model development, training and deployment, as well as mechanisms for scaling AI applications in the cloud, data storage and pipeline options.



MODULE 19 | Fundamental Cloud AI Technology & Automation

Focuses on cloud computing technology, infrastructure and practices specific to establishing and running cloudbased predictive AI and generative AI solutions. Topics include GPU and TPU for AI learning workloads, cloud-based AI services such as AWS SageMaker, Azure Machine Learning and Google AI Platform for model development, training and deployment, as well as mechanisms for scaling AI applications in the cloud, data storage and pipeline options.



MODULE 20 | Advanced Cloud AI Technology & Automation

Covers a range of advanced topics, including cloudbased AI model management, AI pipeline orchestration, optimization techniques, scaling and failover, MLOps, as well as multi-cloud and hybrid AI strategies. Also covered are cloud-based data pipeline services, including AWS Glue, Azure Data Factory and Google Dataflow.



MODULE 20 | Advanced Cloud AI Technology & Automation

Covers a range of advanced topics, including cloudbased AI model management, AI pipeline orchestration, optimization techniques, scaling and failover, MLOps, as well as multi-cloud and hybrid AI strategies. Also covered are cloud-based data pipeline services, including AWS Glue, Azure Data Factory and Google Dataflow.



MODULE 21 | Fundamental Cloud AI Architecture & Design

Explores cloud-based architectural models and design patterns specific to predictive AI and generative AI applications, including the selection and configuration of specialized cloud AI infrastructure, AI-optimized compute instances and network topologies for data-intensive workloads, as well as strategies for integrating AI services within existing cloud environments. Topics also include the utilization of containerization and multi-clouds, as well as scalability, failover and security considerations.



MODULE 22 | Advanced Cloud AI Architecture & Design

Delves into complex architectural models and design patterns, as well as deployment strategies and optimization techniques for AI solutions. Topics covered include designing for high availability and fault tolerance in AI applications, implementing sophisticated data streaming architectures for real-time AI analytics, as well as exploring the utilization of containerization and microservices for AI systems.

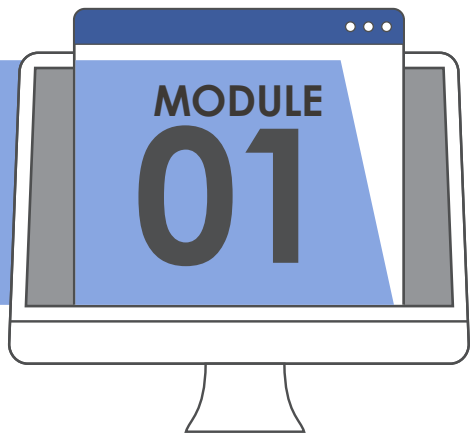


MODULE 23 | Cloud AI Architecture & Design Lab

Provides a series of case-study driven, lab-style exercises and problems that are designed to test your ability to apply your knowledge of topics covered in previous modules. Completing this lab helps reinforce understanding of preceding topics and further demonstrates how different practices and technologies can be applied together as part of greater solutions.



Fundamental Predictive AI

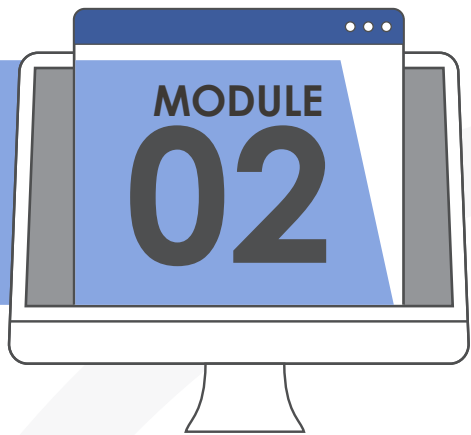


This course module illustrates how predictive AI can be used and applied in a range of business applications, as well as essential coverage of predictive AI practices and systems. The module explores the most common learning approaches and functional areas that AI systems are used for. All of the content is authored in easy-to-understand, plain English.

The following primary topics are covered:

- Predictive AI Business and Technology Drivers
- Predictive AI Benefits
- Common Risks and Challenges of Using Predictive AI
- Business Problem Categories Addressed by AI
- Types of Predictive AI
- Common Predictive AI Learning Approaches
- Understanding Predictive AI Learning and Model Training
- Step-by-Step Training Loop Process
- Supervised Learning, Unsupervised Learning, Continuous Learning
- Heuristic Learning, Semi-Supervised Learning, Reinforcement Learning
- Common Predictive AI Functional Designs, Computer Vision, Pattern Recognition
- Robotics, Natural Language Processing (NLP)
- Speech Recognition, Natural Language Understanding (NLU)
- Understanding AI Models and Neural Networks

Advanced Predictive AI

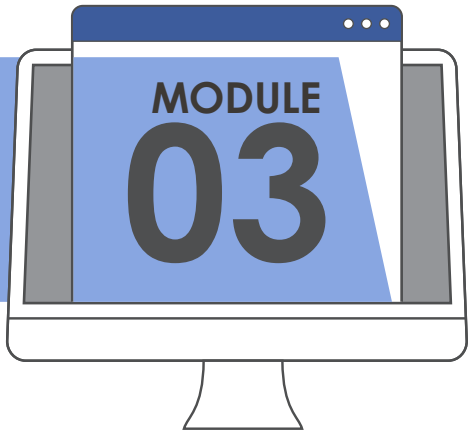


This course module provides insight into how predictive AI systems work by exploring common techniques for learning, data processing and manipulation, and AI system performance management. The course module does not cover any mathematical formulas or programming and is intended for general IT professionals.

The following primary topics are covered:

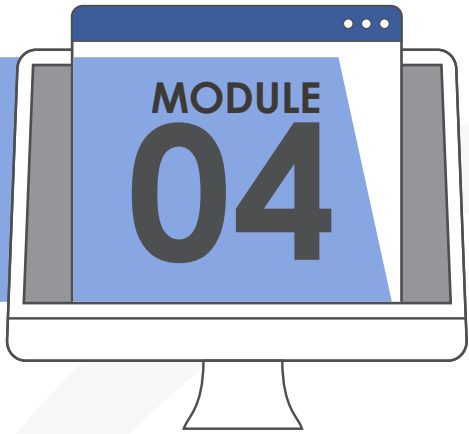
- Understanding Supervised Learning
- Understanding Unsupervised Learning
- Essential Analytics Techniques and Processes
- Introduction to Feature Encoding and Feature Imputation
- Introduction to Dimensionality Reduction
- Introduction to Data Wrangling
- Introduction to Model Evaluation and Training Performance Evaluation
- Introduction to Baseline Modeling and Model Optimization
- Introduction to Overfitting Avoidance
- Introduction to Transfer Learning

Predictive AI Lab



This course module provides a series of case-study driven, lab-style exercises and problems that are designed to test your ability to apply your knowledge of topics covered in previous modules. Completing this lab helps reinforce understanding of preceding topics and further demonstrates how different practices and technologies can be applied together as part of greater solutions.

Fundamental Generative AI

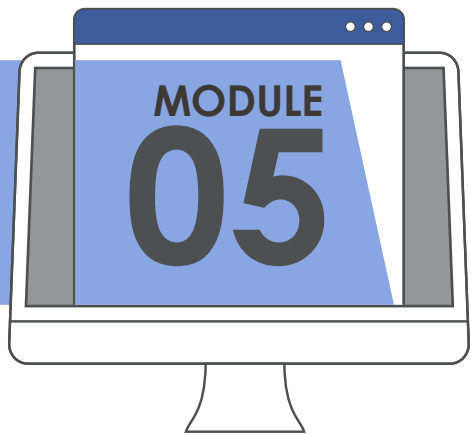


This course module explores the application of generative AI within a range of business scenarios and provides fundamental coverage of generative AI concepts, models, best practices and neural networks, including Generative Adversarial Networks (GANs), Variational Encoders (VAEs) and Transformer models. All of the content is authored in easy-to-understand, plain English.

The following primary topics are covered:

- Generative AI Business and Technology Drivers
- Generative AI Benefits
- Common Risks and Challenges of Using Generative AI
- Business Problem Categories Addressed by Generative AI
- Understanding Models, Algorithms and Neural Networks
- Types of Generative AI
- Training Generative Models and Understanding the Training Loop
- Understanding Generative Adversarial Networks (GANs)
- Understanding Variational Encoders (VAE)
- Understanding Transformers
- Steps to Building AI Systems
- Generative AI Best Practices

Advanced Generative AI

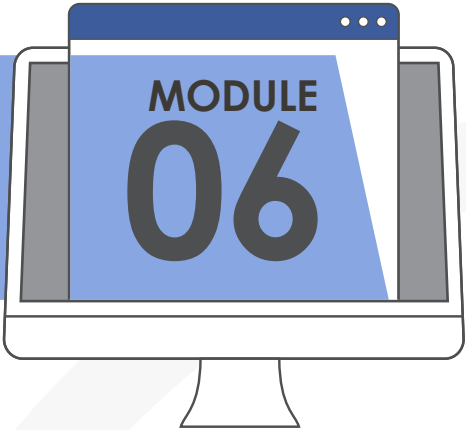


This course module covers a range of common generative AI networks, models and techniques, including specialized neural networks and practices for managing and optimizing generative AI systems and model training processes. The course module does not cover any mathematical formulas or programming and is intended for general IT professionals.

The following primary topics are covered:

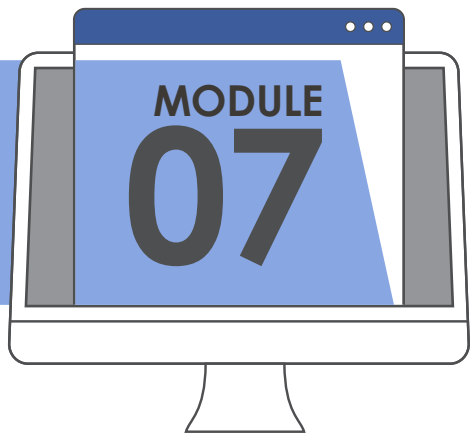
- Ethical Guardians and Output Translators
- Pre-Trained Language Models (PLMs) and Transfer Learning
- Noise Injection, Temperature Adjustment and Random Sparks
- Working with Generative Adversarial Networks (GANs)
- Working with Variational Encoders (VAE)
- Working with Transformers
- Working with Conditional Generative Adversarial Networks (cGAN)
- Working with Recurrent Neural Networks (RNNs) and Long Short-Term Memory (LSTM)
- Large Language Models (LLM) and Natural Language Processing (NLP)
- Model Evaluation and Training Performance Evaluation
- Baseline Modeling and Model Optimization
- Overfitting Avoidance

Generative AI Lab



This course module provides a series of case-study driven, lab-style exercises and problems that are designed to test your ability to apply your knowledge of topics covered in previous modules. Completing this lab helps reinforce understanding of preceding topics and further demonstrates how different practices and technologies can be applied together as part of greater solutions.

Fundamental AI Engineering

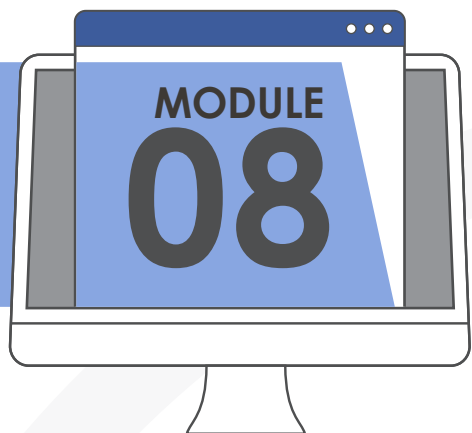


This course module delves into a range of AI engineering practices and techniques, and further provides a detailed introduction of neural network architecture components. The course module establishes a step-by-step process for assembling an AI system, thereby illustrating how and when different practices and components of AI systems with neural networks need to be defined and applied. Finally, the module provides a set of key principles and best practices for AI projects.

The following primary topics are covered:

- Model Evaluation and Validation Techniques
- Data Preprocessing Techniques, Overfitting and Regularization
- Practical AI Ethics and Bias Mitigation
- Optimization Techniques and Advanced Learning Algorithms
- Imbalanced Datasets Handling Techniques
- Natural Language Processing (NLP) with Deep Learning
- Advanced Feature Engineering, Data Augmentation Techniques
- Fine-Tuning Strategies, Reinforcement Learning
- Frictionless Integration, Fault Tolerance Model Integration
- Model Explainability and Interpretability
- Model Deployment, Monitoring and Maintenance
- Understanding Neural Networks and Models
- Neural Network Types, Neurons, Layers, Links, Weights
- Loss, Hyperparameters, Learning Rate, Bias, Epoch
- Activation Functions (Sigmoid, Tanh, ReLU, Leaky ReLU, Softmax, Softplus)
- Neuron Cell Types (Input, Backfed, Noisy, Hidden, Probabilistic, Spiking, Recurrent, Memory, Kernel, Convolution, Pool, Output, Match Input, etc.)
- Neural Network Architectures for Predictive AI and Generative AI
- How to Build an AI System (Step-by-Step)
- Common AI System Design Principles and AI Project Best Practices

Advanced AI Engineering

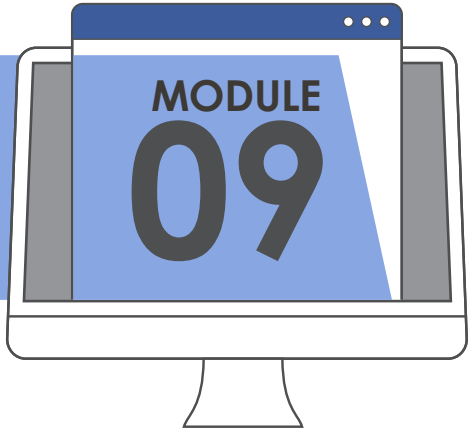


This course module covers a series of practices for preparing and working with data for training and running contemporary AI systems and neural networks. It further provides techniques for designing and optimizing neural networks, including approaches for measuring and tuning neural network model performance. The practices and techniques can be applied individually or in different combinations to address a range of common AI system problems and requirements.

The following primary topics are covered:

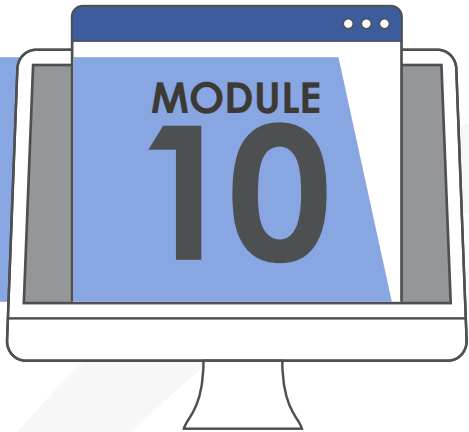
- Data Wrangling for Preparing Data for Neural Network Input
- Feature Encoding for Converting Categorical Features
- Feature Imputation for Inferring Feature Values
- Feature Scaling for Training Datasets with Broad Features
- Text Representation for Converting Data while Preserving Semantic and Syntactic Properties
- Dimensionality Reduction to Reduce Feature Space for Neural Network Input
- Supervised Learning for Training Neural Network Models
- Supervised Network Configuration for Establishing the Number of Neurons in Network Layers
- Image Identification for Using a Convolutional Neural Network
- Sequence Identification for Using a Long Short Term Memory Neural Network
- Unsupervised Learning Patterns for Training Neural Network Models
- Pattern Identification for Visually Identifying Patterns via a Self Organizing Map
- Content Filtering for Generating Recommendations
- Model Evaluation Patterns for Measuring Neural Network Performance
- Training Performance Evaluation for Assessing Neural Network Performance
- Prediction Performance Evaluation for Predicting Neural Network Performance in Production
- Baseline Modeling for Assessing and Comparing Complex Neural Networks
- Model Optimization Patterns for Refining and Adapting Neural Networks
- Overfitting Avoidance for Tuning a Neural Network
- Frequent Model Retraining for Keeping a Neural Network in Synch with Current Data
- Transfer Learning for Accelerating Neural Network Training

AI Engineering Lab



This course module provides a series of case-study driven, lab-style exercises and problems that are designed to test your ability to apply your knowledge of topics covered in previous modules. Completing this lab helps reinforce understanding of preceding topics and further demonstrates how different practices and technologies can be applied together as part of greater solutions.

Fundamental AI Architecture

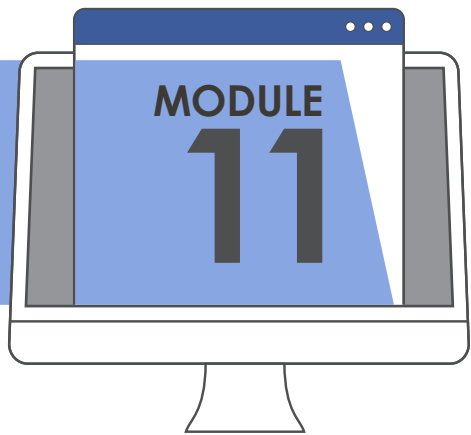


This course module covers core frameworks and technology architecture and infrastructure of predictive and generative AI system implementations. The module includes coverage of neural networks processing requirements and computational considerations pertaining to AI system model training and production processing, as well as AI system data flow and processing optimization and scalability.

The following primary topics are covered:

- Essential AI System Architectural Models and Mechanisms
- Neural Network Architectures
- Data Architectures
- Distributed Computing for AI
- AI Workflow and Lifecycle Management
- AI System Scalability and Performance Optimization
- Security and Privacy Considerations
- Decision-making Processes with AI Systems
- Monitoring, Logging and Maintenance of AI Systems

Advanced AI Architecture

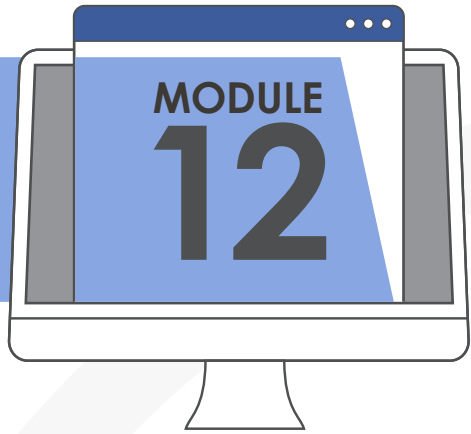


This course module provides an exploration of different AI system architecture designs and addresses complex topics such as hyperparameter tuning and advanced optimization strategies for large-scale neural networks. The module also covers the intricacies of transfer learning and multi-modal AI systems, as well as distributed computing, explainability and adversarial robustness in AI models.

The following primary topics are covered:

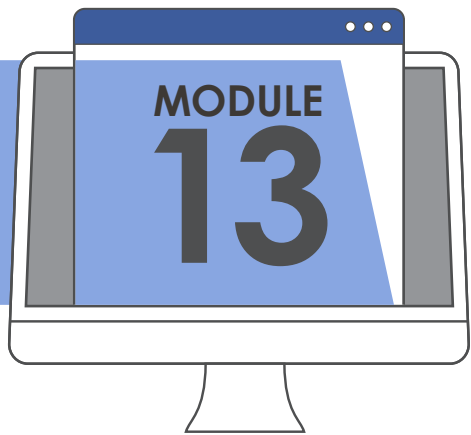
- Optimizing AI Workflow and Lifecycle Management
- Achieving Scalability and High Performance in AI
- Security and Privacy Measures in AI Systems
- Ethical AI Governance
- Enterprise AI Integration
- AI for Decision Making
- Maintenance Strategies for AI Systems
- Model Serving, Versioning and Rollback
- Explainability and Transparency in AI Architecture
- Regulatory Compliance and Standards in AI Deployment

AI Architecture Lab



This course module provides a series of case-study driven, lab-style exercises and problems that are designed to test your ability to apply your knowledge of topics covered in previous modules. Completing this lab helps reinforce understanding of preceding topics and further demonstrates how different practices and technologies can be applied together as part of greater solutions.

Fundamental AI Chatbot Concepts & Design

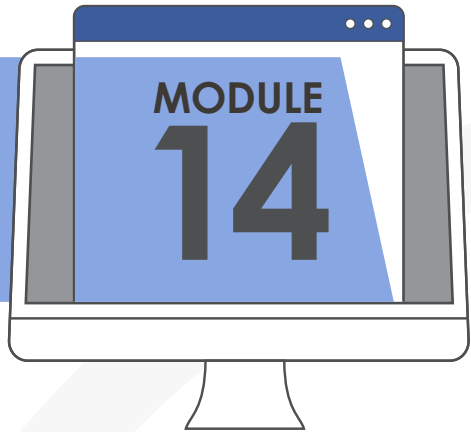


This course module introduces essential topics pertaining to how AI-driven chatbots function and how they can be utilized in real-world scenarios. Basic concepts are covered to establish the inner workings of chatbots and the different types of chatbots that are commonly used. Basic design approaches are introduced to illustrate how AI-driven chatbots can be integrated within an organization.

The following primary topics are covered:

- Understanding Chatbot Concepts
- Rule-based Chatbots and AI-driven Chatbots
- Data Science and Artificial Intelligence Essentials
- Chatbots and Generative AI
- Chatbot Channels and Interfaces
- Creating Conversational Logic
- Working with Intents and Entities
- Creating Dialogs
- Basics of Natural Language Processing (NLP)
- Basics of Chatbot Expressions
- Chatbot Models
- Common Chatbot Business Scenarios

Advanced AI Chatbot Concepts & Design

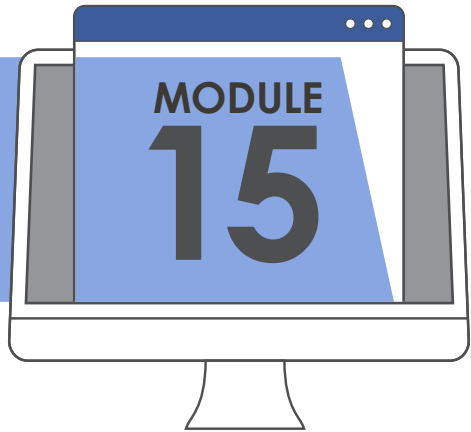


This course continues to delve into the technology and functionality of AI-driven chatbots by exploring more complex utilization scenarios, as well as more design approaches and back-end integration options.

The following primary topics are covered:

- Understanding Large Language Models (LLM)
- More on Natural Language Processing (NLP)
- Working with Neural Networks
- Text Generation and Sentiment Analysis
- Speech Recognition and Synthesis
- Conversational User Experience Design
- Managing Conversation Digressions
- Responding to Unanticipated Questions or Comments
- Designing Conditional Logic
- Designing Error-handling Logic
- Designing Chatbots to Collect Data
- Improving and Evolving the Chatbot Model
- Integrating Chatbots with Back-end Systems
- Chatbot Integration with Robotic Process Automation (RPA)
- Advanced Chatbot Business Scenarios

AI Chatbot Concepts & Design Lab

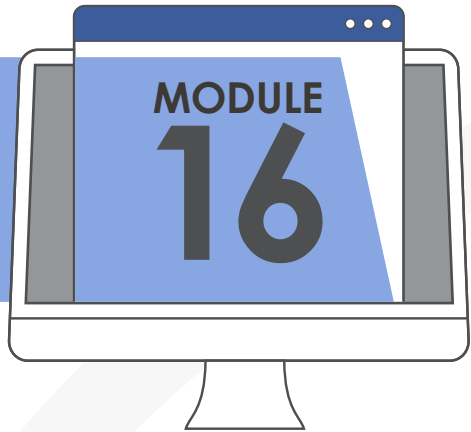


This course module presents participants with a series of exercises and problems that are designed to test their ability to apply their knowledge of topics covered in previous modules. Completing this lab will further improve proficiency in AI-driven chatbot concepts, technologies and practices, as they are applied and combined to solve a series of real-world problems.

The following exercises are provided:

- Reading Exercise 15.1: Case Study: Expense Tracking
- Lab Exercise 15.2: Creating a Chatbot System for Expense Tracking
- Lab Exercise 15.3: Refining the Chatbot Logic
- Lab Exercise 15.4: Conversational Logic Refinement
- Reading Exercise 15.5: Case Study: Fly Higher Airline
- Lab Exercise 15.6: Creating a Chatbot System for Customer Feedback Collection
- Lab Exercise 15.7: Designing a Dialog with Error Handling
- Lab Exercise 15.8: Adding Support for Voice Input
- Lab Exercise 15.9: Categorizing Feedback and Action Items
- Reading Exercise 15.10: Case Study Background: Retail Giant Co.
- Lab Exercise 15.11: Creating a Chatbot System for Order Confirmation and Tracking
- Lab Exercise 15.12: Designing the Back-end Integration with an RPA Bot
- Lab Exercise 15.13: Creating a Complex, Customer-Centric Dialog

Fundamental NLP Engineering

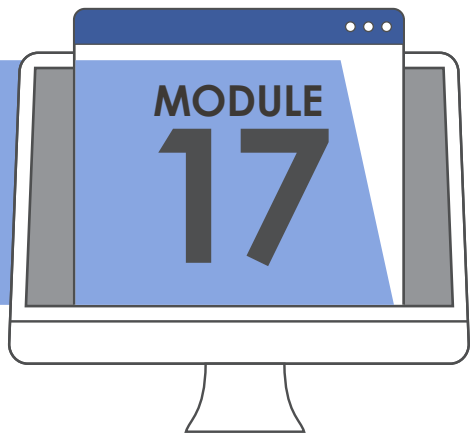


This course module begins with an exploration of how NLP solutions can be used by businesses, as well as common associated challenges and risks. The module then continues with covering essential topics, such as NLP text processing, tokenization, stemming and lemmatization, as well as linguistic data preparation, common NLP models and libraries, and addressing bias and fairness concerns.

The following primary topics are covered:

- Introduction to NLP Engineering
- Scope of Natural Language Processing
- NLP Linguistic Foundations
- Fundamentals of Syntax, Semantics and Pragmatics
- Understanding NLP Morphology and Phonetics
- Text Processing, including Normalization, Tokenization, Stemming, Lemmatization
- Regular Expressions and Text Data Cleaning
- Sentiment Analysis and Syntax Parsing
- NLP Supervised and Unsupervised Learning
- Working with NLP Libraries
- Steps to Develop a Simple NLP Model
- Understanding Context and Inference
- Bias and Fairness in NLP
- Understanding Fairness and Ethical Implications in Model Building

Advanced NLP Engineering

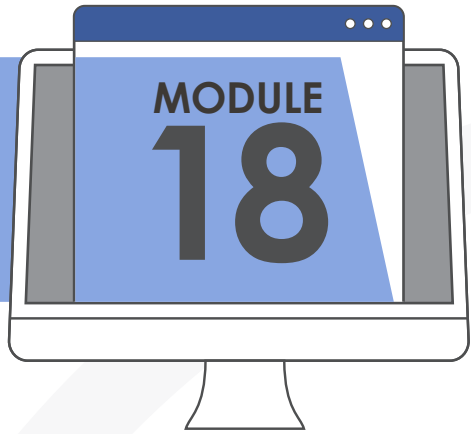


This course module covers advanced topics, such as contextual embeddings, attention mechanisms, transformer models, as well as sequence-to-sequence models for tasks like summarization and translation. Also covered are methods for handling linguistic subtleties, sarcasm and ambiguity in natural language, and strategies to address challenges such as cross-lingual NLP and domain-specific language understanding.

The following primary topics are covered:

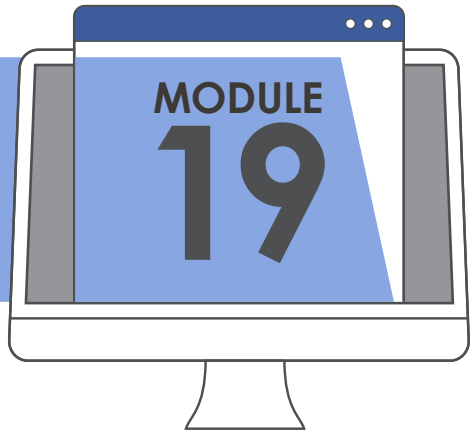
- Introduction to NLP Neural Network Architectures
- Recurrent Neural Networks (RNNs), Long Short-Term Memory (LSTM) Networks and Gated Recurrent Units (GRUs)
- Introduction to Contextual Embeddings
- Understanding the Transformer Architecture
- Self-Attention and the Attention Mechanism
- BERT, GPT-series, RoBERTa and other variants
- Fine-Tuning Pretrained Models
- Feature Extraction from Transformer Models
- Neural Machine Translation and Sequence-to-Sequence Models
- Advanced Sentiment Analysis, Text Summarization and Question Answering
- Dealing with Ambiguity, Idiomatic Language, Sarcasm

NLP Engineering Lab



This course module provides a series of case-study driven, lab-style exercises and problems that are designed to test your ability to apply your knowledge of topics covered in previous modules. Completing this lab helps reinforce understanding of preceding topics and further demonstrates how different practices and technologies can be applied together as part of greater solutions.

Fundamental Cloud AI Technology & Automation

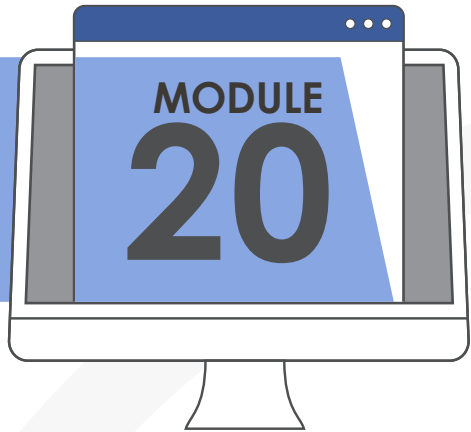


This course module focuses on cloud computing technology, infrastructure and practices specific to establishing and running cloud-based predictive AI and generative AI solutions. Topics include GPU and TPU for AI learning workloads, cloud-based AI services such as AWS SageMaker, Azure Machine Learning and Google AI Platform for model development, training and deployment, as well as mechanisms for scaling AI applications in the cloud, data storage and pipeline options.

The following primary topics are covered:

- Overview of Cloud Computing Related to Predictive AI and Generative AI
- Fundamental Cloud AI Infrastructure
- Types of Cloud Infrastructure (GPUs, TPUs) and their AI Applications
- AI Services in the Cloud
- Exploring AWS SageMaker, Azure Machine Learning and Google AI Platform
- Leveraging Pre-Built AI APIs
- Managing AI Data in the Cloud
- AI Data Storage (Object Storage, Data Warehouses, Data Lakes)
- Building and Training AI Models in the Cloud
- Training Models with Cloud-based Services
- Deploying AI Models in the Cloud
- Data Compliance and Governance in AI
- Monitoring and Optimizing AI Workloads
- Security and Privacy Considerations

Advanced Cloud AI Technology & Automation

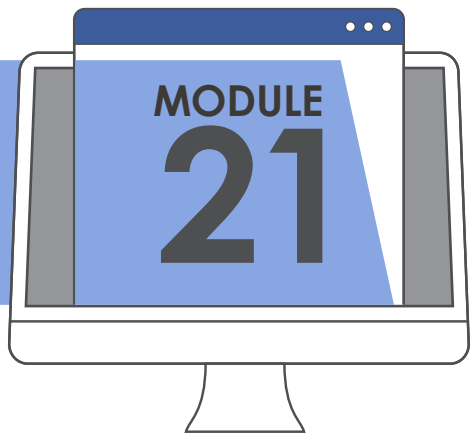


This course module covers a range of advanced topics, including cloud-based AI model management, AI pipeline orchestration, optimization techniques, scaling and failover, MLOps, as well as multi-cloud and hybrid AI strategies. Also covered are cloud-based data pipeline services, including AWS Glue, Azure Data Factory and Google Dataflow.

The following primary topics are covered:

- AI Model Orchestration for Multi-Step AI Workflows
- Resource Optimization Cloud-based AI
- Multi-Cloud and Hybrid AI Frameworks
- MLOps and Continuous Integration and Delivery (CI/CD) Pipelines for AI Models
- AI Data Pipeline Services, including AWS Glue, Azure Data Factory, Google Dataflow
- Performance Tuning and Distributed AI Architectures
- Managing Distributed Data and Computation in AI Applications
- Security Strategies for AI Data and Models
- Disaster Recovery and Failover Planning
- Scaling and Managing AI Applications with Containerization and Serverless
- Automated Failover Mechanisms for High-Availability AI
- Advanced Analytics and AI Services
- Cloud-Native Advanced AI Services

Fundamental Cloud AI Architecture & Design

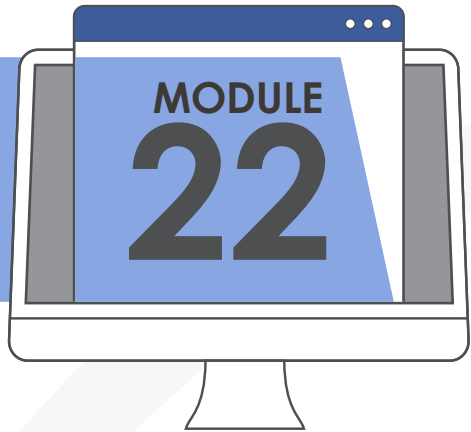


This course module explores cloud-based architectural models and design patterns specific to predictive AI and generative AI applications, including the selection and configuration of specialized cloud AI infrastructure, AI-optimized compute instances and network topologies for data-intensive workloads, as well as strategies for integrating AI services within existing cloud environments. Topics also include the utilization of containerization and multi-clouds, as well as scalability, failover and security considerations.

The following primary topics are covered:

- Introduction to Cloud-Based AI Architectures
- Specialized Cloud AI Infrastructure
- Understanding AI-Optimized Compute and Storage Options
- Network Design for AI Workloads
- Integrating AI into Existing Cloud Architectures
- Data Governance and Orchestration for AI
- Serverless AI and Structuring AI Applications as Microservices
- Containerization of AI Environments
- AI Architectures for Hybrid and Multi-Cloud Environments
- Securing AI Architectures in the Cloud
- Compliance and Privacy in AI Architectures
- Scalability and Performance Optimization

Advanced Cloud AI Architecture & Design

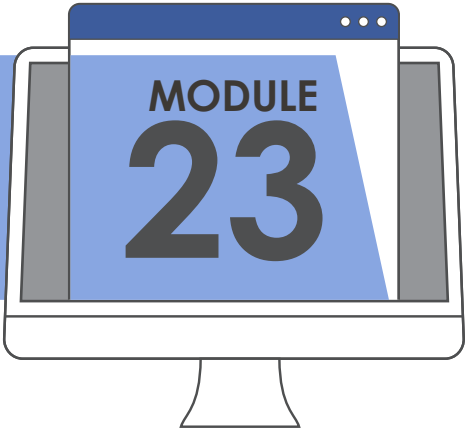


This course module delves into complex architectural models and design patterns, as well as deployment strategies and optimization techniques for AI solutions. Topics covered include designing for high availability and fault tolerance in AI applications, implementing sophisticated data streaming architectures for real-time AI analytics, as well as exploring the utilization of containerization and microservices for AI systems.

The following primary topics are covered:

- Principles of Advanced AI Architecture Design
- Hyper-Scaling AI Infrastructure
- Real-Time Data Architectures for AI
- Microservices and Service Meshes in AI Applications
- Advanced Security Architectures for AI Systems, including Zero-Trust Models
- Lifecycle Management of Cloud-Based AI
- AI-Specific Resource Management and Automation
- Managing State and Dataflow in AI Applications
- Distributed AI Systems and Patterns for Data Flow
- Monitoring and Observability of AI Systems
- Disaster Recovery and Business Continuity
- Interoperability and Standardization in AI Architecture

Cloud AI Architecture & Design Lab



This course module provides a series of case-study driven, lab-style exercises and problems that are designed to test your ability to apply your knowledge of topics covered in previous modules. Completing this lab helps reinforce understanding of preceding topics and further demonstrates how different practices and technologies can be applied together as part of greater solutions.

TRAINING AND EXAM PREPARATION RESOURCES

You can supplement this course with a number of available resources to assist with both learning and exam preparation. Contact info@arcitura.com with any questions.



Certification Exam Prep Kit

A set of additional practice questions is available to support exam preparation.



Digital Course Files

For each course you can order a set of downloadable digital course materials comprised of printable, watermarked workbook and poster PDF files.



Printed Course Materials

The printed workbooks and posters for each course can be ordered in B&W and full-color, and can be shipped worldwide.



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Instructor-Led Training

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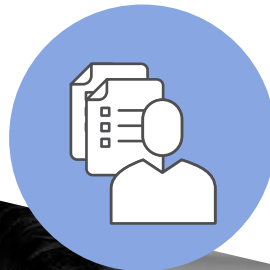
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TAKING EXAMS VIA DIRECT ONLINE PROCTORING

Arcitura Direct Online Proctoring enables test takers to take proctored exams remotely, in any time zone, and often on short notice. For more information, contact info@arcitura.com and provide your exam scheduling preferences.



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AI Professional Academy

- Predictive AI Specialist Certification Exam
- Generative AI Specialist Certification Exam
- AI Engineer Certification Exam
- AI Architect Certification Exam
- AI Consultant Certification Exam
- AI Chatbot Specialist Certification Exam
- NLP Engineer Certification Exam
- Cloud AI Professional Certification Exam
- Cloud AI Architect Certification Exam

Digital Transformation Professional Academy

- Digital Transformation Specialist Certification Exam
- Digital Transformation Technology Professional Certification Exam
- Digital Transformation Technology Architect Certification Exam
- Digital Transformation Data Science Professional Certification Exam
- Digital Transformation Data Scientist Certification Exam
- Digital Transformation Security Professional Certification Exam
- Digital Transformation Security Specialist Certification Exam
- Digital Transformation IA Professional Certification Exam
- Digital Transformation IA Specialist Certification Exam

Next-Gen IT Academy

- DevOps Specialist Certification Exam
- Blockchain Architect Certification Exam
- IoT Architect Certification Exam
- Cybersecurity Specialist Certification Exam
- RPA Specialist Certification Exam
- Digital Business Technology Professional Certification Exam
- Containerization Architect Certification Exam
- Quantum Computing Specialist Certification Exam

Next-Gen Data Science Academy

- Big Data Science Professional Certification Exam
- Big Data Scientist Certification Exam
- Machine Learning Specialist Certification Exam
- Artificial Intelligence Specialist Certification Exam
- Data Science Consultant Certification Exam
- Big Data Engineer Certification Exam
- Big Data Architect Certification Exam
- Data Science Governance Specialist Certification Exam
- AI Decisioning Specialist Certification Exam

Cloud Computing School

- Cloud Technology Professional Certification Exam
- Cloud Computing Consultant Certification Exam
- Cloud Architect Certification Exam
- Cloud Security Specialist Certification Exam
- Cloud Governance Specialist Certification Exam
- Cloud Storage Specialist Certification Exam
- Cloud Virtualization Specialist Certification Exam

Service Technology School

- Microservice Professional Certification Exam
- SOA Professional Certification Exam
- SOA Analyst Certification Exam
- SOA Architect Certification Exam
- Microservice Architect Certification Exam
- Service API Specialist Certification Exam
- Service Governance Specialist Certification Exam
- Service Security Specialist Certification Exam
- Microservice Consultant Certification Exam



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MORE INFO

For more information regarding these exams contact: info@arcitura.com

COURSES		Predictive AI	Generative AI	AI Engineering	AI Architecture & Design	AI Professional Consulting	AI Chatbot Concepts & Design	NLP Engineering	Cloud AI Technology & Automation	Cloud AI Architecture & Design
CERTIFICATIONS		Predictive AI Specialist	Generative AI Specialist	AI Engineer	AI Architect	AI Consultant	AI Chatbot Specialist	NLP Engineer	Cloud AI Professional	Cloud AI Architect
MODULE 01	Fundamental Predictive AI	●		●	●	●				
MODULE 02	Advanced Predictive AI	●								
MODULE 03	Predictive AI Lab	●								
MODULE 04	Fundamental Generative AI		●	●	●	●				
MODULE 05	Advanced Generative AI		●							
MODULE 06	Generative AI Lab		●							
MODULE 07	Fundamental AI Engineering			●		●				
MODULE 08	Advanced AI Engineering			●						
MODULE 09	AI Engineering Lab			●						
MODULE 10	Fundamental AI Architecture				●	●				
MODULE 11	Advanced AI Architecture				●					
MODULE 12	AI Architecture Lab				●					
MODULE 13	Fundamental AI Chatbot Concepts & Design						●			
MODULE 14	Advanced AI Chatbot Concepts & Design						●			
MODULE 15	AI Chatbot Concepts & Design Lab						●			
MODULE 16	Fundamental NLP Engineering							●		
MODULE 17	Advanced NLP Engineering							●		
MODULE 18	NLP Engineering Lab							●		
MODULE 19	Fundamental Cloud AI Technology & Automation								●	●
MODULE 20	Advanced Cloud AI Technology & Automation								●	●
MODULE 21	Fundamental Cloud AI Architecture & Design									●
MODULE 22	Advanced Cloud AI Architecture & Design									●
MODULE 23	Cloud AI Architecture & Design Lab									●

COURSES		Digital Transformation	Fundamental Digital Technology	Digital Technology & Architecture	Fundamental AI & Data Science for Digital Transformation	AI & Data Science for Digital Transformation	Fundamental Security for Digital Transformation	Security for Digital Transformation	Fundamental Intelligent Automation for Digital Transformation	Intelligent Automation for Digital Transformation
CERTIFICATIONS		Digital Transformation Specialist	Digital Technology Professional	Digital Technology Architect	Digital Data Science Professional	Digital Data Scientist	Digital Security Professional	Digital Security Specialist	Intelligent Automation Professional	Intelligent Automation Specialist
MODULE 01	Fundamental Digital Transformation	●	●	●	●	●	●	●	●	●
MODULE 02	Digital Transformation in Practice	●	●	●	●	●	●	●	●	●
MODULE 03	Fundamental Cloud Computing		●	●						
MODULE 04	Fundamental Blockchain		●	●			●	●		
MODULE 05	Fundamental IoT		●	●						
MODULE 06	Cloud Architecture			●						
MODULE 07	Blockchain Architecture			●				●		
MODULE 08	IoT Architecture			●						
MODULE 09	Fundamental Big Data Analysis & Analytics				●	●				
MODULE 10	Fundamental Machine Learning				●	●				
MODULE 11	Fundamental AI				●	●			●	●
MODULE 12	Advanced Big Data Analysis & Analytics					●				
MODULE 13	Advanced Machine Learning					●				
MODULE 14	Advanced AI					●				●
MODULE 15	Fundamental Cybersecurity						●	●		
MODULE 16	Advanced Cybersecurity							●		
MODULE 17	Fundamental RPA								●	●
MODULE 18	Advanced RPA & Intelligent Automation									●

Attaining a certification that encompasses all of the course modules also associated with another certification results in the other certification also being automatically awarded.

COURSES		DevOps	Blockchain Architecture	IoT Architecture	Cybersecurity	Robotic Process Automation	Digital Business Technology	Containerization Architecture	Quantum Computing
CERTIFICATIONS		DevOps Specialist	Blockchain Architect	IoT Architect	Cybersecurity Specialist	RPA Specialist	Digital Business Technology Professional	Containerization Architect	Quantum Computing Specialist
DevOps	MODULE 01 Fundamental DevOps	●							
	MODULE 02 DevOps in Practice	●							
	MODULE 03 DevOps Lab	●							
Blockchain	MODULE 01 Fundamental Blockchain		●						
	MODULE 02 Blockchain Technology & Architecture		●						
	MODULE 03 Blockchain Technology & Architecture Lab		●						
Internet of Things	MODULE 01 Fundamental IoT			●					
	MODULE 02 IoT Technology & Architecture			●					
	MODULE 03 IoT Technology & Architecture Lab			●					
Cybersecurity	MODULE 01 Fundamental Cybersecurity				●				
	MODULE 02 Advanced Cybersecurity				●				
	MODULE 03 Cybersecurity Lab				●				
Robotic Process Automation	MODULE 01 Fundamental RPA					●			
	MODULE 02 Advanced RPA & Intelligent Automation					●			
	MODULE 03 RPA Lab					●			
Digital Business Technology	MODULE 01 Business Automation Technology Overview						●		
	MODULE 02 Data Science Technology Overview						●		
	MODULE 03 Digital & Security Technology Overview						●		
Containerization	MODULE 01 Fundamental Containerization							●	
	MODULE 02 Containerization Technology & Architecture							●	
	MODULE 03 Containerization Technology & Architecture Lab							●	
Quantum Computing	MODULE 01 Fundamental Quantum Computing								●
	MODULE 02 Advanced Quantum Computing								●
	MODULE 03 Quantum Computing Lab								●

COURSES		Big Data Analytics & Fundamental Data Science	Big Data Analysis & Advanced Data Science	Data Science Professional Consulting	Machine Learning	Artificial Intelligence	Big Data Engineering	Big Data Architecture	Data Science Governance	AI Decisioning
CERTIFICATIONS		Big Data Science Professional	Big Data Scientist	Data Science Consultant	Machine Learning Specialist	Artificial Intelligence Specialist	Big Data Engineer	Big Data Architect	Data Science Governance Specialist	AI Decisioning Specialist
MODULE 01	Fundamental Big Data Science & Analytics	●	●	●			●	●	●	●
MODULE 02	Big Data Analysis & Technology Concepts	●	●	●			●	●	●	●
MODULE 03	Big Data Analysis & Technology Lab	●		●						
MODULE 04	Big Data Analysis & Science		●							
MODULE 05	Advanced Big Data Analysis & Science		●							
MODULE 06	Big Data Analysis & Science Lab		●							
MODULE 07	Fundamental Machine Learning			●	●					
MODULE 08	Advanced Machine Learning				●					
MODULE 09	Machine Learning Lab				●					
MODULE 10	Fundamental Artificial Intelligence			●		●				
MODULE 11	Advanced Artificial Intelligence					●				
MODULE 12	Artificial Intelligence Lab					●				
MODULE 13	Fundamental Big Data Engineering						●			
MODULE 14	Advanced Big Data Engineering						●			
MODULE 15	Big Data Engineering Lab						●			
MODULE 16	Fundamental Big Data Architecture							●		
MODULE 17	Advanced Big Data Architecture							●		
MODULE 18	Big Data Architecture Lab							●		
MODULE 19	Fundamental Data Science Governance for Big Data, Machine Learning & AI								●	
MODULE 20	Advanced Data Science Governance for Big Data, Machine Learning & AI								●	
MODULE 21	Data Science Governance Lab for Big Data, Machine Learning & AI								●	
MODULE 22	Fundamental AI Decisioning									●
MODULE 23	Advanced AI Decisioning									●
MODULE 24	AI Decisioning Lab									●

COURSES		Cloud Computing	Cloud Computing Professional Consulting	Cloud Architecture	Cloud Security	Cloud Governance	Cloud Storage	Cloud Virtualization
CERTIFICATIONS		Cloud Technology Professional	Cloud Computing Consultant	Cloud Architect	Cloud Security Specialist	Cloud Governance Specialist	Cloud Storage Specialist	Cloud Virtualization Specialist
MODULE 01	Fundamental Cloud Computing	●	●	●	●	●	●	●
MODULE 02	Cloud Technology Concepts	●	●	●	●	●	●	●
MODULE 03	Cloud Technology Lab	●	●					
MODULE 04	Fundamental Cloud Architecture		●	●				
MODULE 05	Advanced Cloud Architecture			●				
MODULE 06	Cloud Architecture Lab			●				
MODULE 07	Fundamental Cloud Security		●		●			
MODULE 08	Advanced Cloud Security				●			
MODULE 09	Cloud Security Lab				●			
MODULE 10	Fundamental Cloud Governance					●		
MODULE 11	Advanced Cloud Governance					●		
MODULE 12	Cloud Governance Lab					●		
MODULE 13	Fundamental Cloud Storage						●	
MODULE 14	Advanced Cloud Storage						●	
MODULE 15	Cloud Storage Lab						●	
MODULE 16	Fundamental Cloud Virtualization							●
MODULE 17	Advanced Cloud Virtualization							●
MODULE 18	Cloud Virtualization Lab							●

COURSES		Fundamental Microservices & Service Technology	Fundamental SOA Design with Services & Microservices	SOA Analysis & Modeling with Services & Microservices	SOA Design & Architecture with Services & Microservices	Microservice Design & Architecture	Microservice Professional Consulting	Service API Design & Management	Service Governance & Project Delivery	Security for Microservices & SOA
CERTIFICATIONS		Microservice Professional	SOA Professional	SOA Analyst	SOA Architect	Microservice Architect	Microservice Consultant	Service API Specialist	Service Governance Specialist	Service Security Specialist
MODULE 01	Fundamental SOA, Services & Microservices	●	●	●	●	●	●	●	●	●
MODULE 02	Microservice Technology Concepts	●			●	●	●	●		●
MODULE 03	Design & Architecture with SOA, Services & Microservices		●	●	●				●	
MODULE 04	Fundamental SOA Analysis & Modeling with Services & Microservices			●						
MODULE 05	Advanced SOA Analysis & Modeling with Services & Microservices			●						
MODULE 06	SOA Analysis & Modeling Lab with Services & Microservices			●						
MODULE 07	Advanced SOA Design & Architecture with Services & Microservices				●					
MODULE 08	SOA Design & Architecture Lab with Services & Microservices				●					
MODULE 09	Fundamental Microservice Architecture & Containerization					●	●			
MODULE 10	Advanced Microservice Architecture & Containerization					●				
MODULE 11	Microservice Architecture & Containerization Lab					●				
MODULE 12	Fundamental Service API Design & Management						●	●		
MODULE 13	Advanced Service API Design & Management							●		
MODULE 14	Service API Design & Management Lab							●		
MODULE 15	Fundamental Service Governance & Project Delivery								●	
MODULE 16	Advanced Service Governance & Project Delivery								●	
MODULE 17	Service Governance & Project Delivery Lab								●	
MODULE 18	Fundamental Security for Services, Microservices & SOA						●			●
MODULE 19	Advanced Security for Services, Microservices & SOA									●
MODULE 20	Security Lab for Services, Microservices & SOA									●



BECOME AN **AUTHORIZED PARTNER**

Whether you are with a private training provider, an academic institution or part of an organization interested in bringing training in-house, Arcitura Education has a flexible partnering model that can accommodate a broad range of requirements and budgets.



BECOME A **CERTIFIED TRAINER**

Whether you are with a private training provider, an academic institution or part of an organization interested in bringing training in-house, Arcitura Education has a flexible partnering model that can accommodate a broad range of requirements and budgets.

CONTACT US

+1-604-904-4100
info@arcitura.com
www.arcitura.com

 www.youtube.com/@arcitura

 www.linkedin.com/company/arcitura



