AI CHATBOT SPECIALIST

Training & Certification Guide



Al & Cloud Al 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.

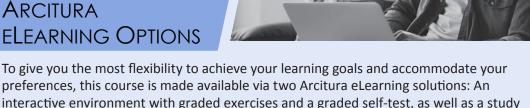
The AI & Cloud AI Professional Academy curriculum is comprised of 23 course modules and 9 certification tracks. Exams are available worldwide via online proctoring and on-site delivery by Certified Trainers. Achieving a passing grade on the required exam(s) achieves a certification for which a digital accreditation certificate is automatically issued by Arcitura and a digital certification badge is issued by Acclaim/Credly.

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HOW TO TAKE THIS COURSE



ARCITURA **ELEARNING OPTIONS**



To learn more, visit: www.arcitura.com/elearning

kit account that supports online/offline access and custom annotations.

To enroll, visit: digital.arcitura.com/courses



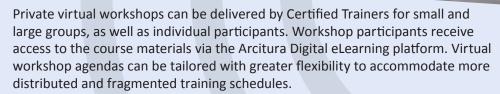
ONSITE **WORKSHOPS**

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 Digital eLearning course materials. Each workshop agenda, format and schedule can be tailored to client requirements.

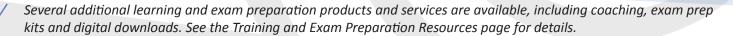
To learn more, visit: www.arcitura.com/workshops



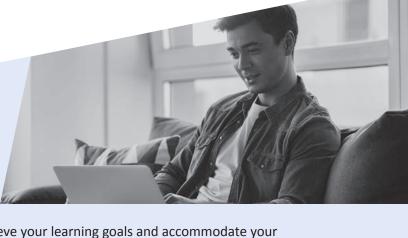
VIRTUAL **WORKSHOPS**

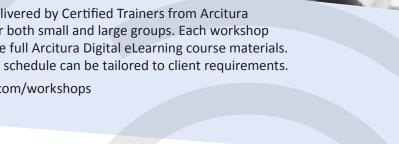


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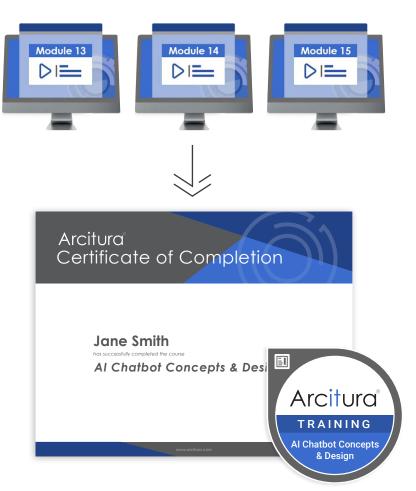












HOW TO GET STARTED

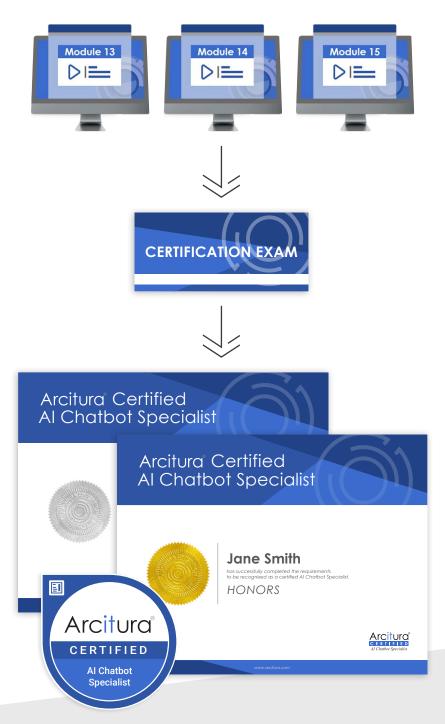
Welcome to the AI Chatbot Concepts & Design course! This course is comprised of a set of modules. Each module has a set of lessons and is further supplemented with exercises to help reinforce your understanding of key topics. Upon completing the course, you can optionally proceed to prepare yourself for the certification exam (as explained on the *How to get Certified* page).

Additional resources are available to assist you with completing this course, including downloadable digital course files, printed course materials, coaching hours and instructor-led training services (as explained on the *Training and Exam Preparation Resources* page.)





A Certified AI Chatbot Specialist understands how and where Al-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.



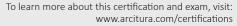
HOW TO GET CERTIFIED

You can become a Certified AI Chatbot Specialist! This course can prepare you for the official AI Chatbot Specialist Certification exam, which can be taken worldwide.

Upon attaining a passing grade on the certification exam, you will achieve the AI Chatbot Specialist Certification, after which you will automatically receive an official digital Accreditation Certificate and a digital Certification Badge from Acclaim/Credly with an account that supports the online verification of your certification status. Digital accreditation certificates and badges are free of charge.

Additional resources are available to assist you with preparing for the certification exam, including practice exam questions, downloadable digital course files, printed course materials, coaching hours and instructor-led training services (as explained on the Training and Exam Preparation Resources page.)

MORE INFO











Fundamental Al Chatbot Concepts & Design



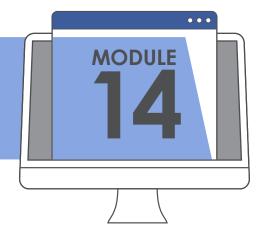
This course module introduces essential topics pertaining to how Aldriven chatbots function and how they can be utilized in real-world scenarios. Basic concepts are covered to establish the inner workings of chatbots and the different types of chatbots that are commonly used. Basic design approaches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

The following primary topics are covered:

- Understanding Chatbot Concepts
- Rule-based Chatbots and Al-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 Al Chatbot Concepts & Design



This course continues to delve into the technology and functionality of Al-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



Al 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 Al-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



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.



One-on-One Coaching —

Certified Trainers are available to provide online coaching on an hourly basis and in all time zones.



Instructor-Led Training

Certified Trainers are available to provide virtual and onsite training workshops for this and other Arcitura courses.

Al & Cloud Al Professional Academy

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









DIGITAL TRANSFORMATION PROFESSIONAL ACADEMY

	COURSES	Digital Transformation	Fundamental Digital Technology	Digital Technology & Architecture	Fundamental AI & Data Science for Digital Transformation	Al & 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
CE	ERTIFICATIONS	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 Al				•	•			•	•
MODULE 12	Advanced Big Data Analysis & Analytics					•				
MODULE 13	Advanced Machine Learning					•				
MODULE 14	Advanced Al					•				•
MODULE 15	Fundamental Cybersecurity						•	•		
MODULE 16	Advanced Cybersecurity							•		
MODULE 17	Fundamental RPA								•	•
MODULE 18	Advanced RPA & Intelligent Automation									•









NEXT-GEN IT ACADEMY



	COURSES	DevOps	Blockchain Architecture	loT Architecture	Cybersecurity	Robotic Process Automation	Digital Business Technology	Containerization Architecture	Quantum Computing
CERT	TIFICATIONS	DevOps Specialist	Blockchain Architect	loT Architect	Cybersecurity Specialist	RPA Specialist	Digital Business Technology Professional	Containerization Architect	Quantum Computing Specialist
MODULE 01	Fundamental DevOps	•							
MODULE 02	DevOps in Practice	•							
MODULE 03	DevOps Lab	•							
MODULE 01	Fundamental Blockchain		•						
MODULE 02	Blockchain Technology & Architecture		•						
MODULE 03	Blockchain Technology & Architecture Lab		•						
MODULE 01	Fundamental IoT			•					
MODULE 02	loT Technology & Architecture			•					
MODULE 03	loT Technology & Architecture Lab			•					
MODULE 01	Fundamental Cybersecurity				•				
MODULE 02	Advanced Cybersecurity				•				
MODULE 03	Cybersecurity Lab				•				
MODULE 01	Fundamental RPA					•			
MODULE 02	Advanced RPA & Intelligent Automation					•			
MODULE 03	RPA Lab					•			
MODULE 01	Business Automation Technology Overview						•		
MODULE 02	Data Science Technology Overview						•		
MODULE 03	Digital & Security Technology Overview						•		
MODULE 01	Fundamental Containerization							•	
MODULE 02	Containerization Technology & Architecture							•	
MODULE 03	Containerization Technology & Architecture Lab							•	
MODULE 01	Fundamental Quantum Computing								•
MODULE 02	Advanced Quantum Computing								•
MODULE 03	Quantum Computing Lab								•



NEXT-GEN DATA SCIENCE ACADEMY

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	COURSES	Big Data Analytics & Fundamental Data Science	Big Data Analysis & Advanced Data Science	Big Data Consutling	Data Science Professional Consulting	Machine Learning	Big Data Engineering	Big Data Architecture	Data Science Governance
CI	ERTIFICATIONS	Big Data Science Professional	Big Data Scientist	Big Data Consutlant	Data Science Consultant	Machine Learning Specialist	Big Data Engineer	Big Data Architect	Data Science Governance 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 Predictive & Generative Artificial Intelligence				•				
MODULE 11	Fundamental Big Data Engineering						•		
MODULE 12	Advanced Big Data Engineering						•		
MODULE 13	Big Data Engineering Lab			•			•		
MODULE 14	Fundamental Big Data Architecture							•	
MODULE 15	Advanced Big Data Architecture							•	
MODULE 16	Big Data Architecture Lab							•	
MODULE 17	Fundamental Data Science Governance for Big Data, Machine Learning & Al								•
MODULE 18	Advanced Data Science Governance for Big Data, Machine Learning & Al								•
MODULE 19	Data Science Governance Lab for Big Data, Machine Learning & Al								•

Gray circles indicate prerequisite modules.









CLOUD COMPUTING SCHOOL

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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							•

Gray circles indicate prerequisite modules.



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	COURSES	Fundamental Microservices & Service Technology	Fundamental SOA Design with Services & Microservices	SOA Analysis & Modeling with Services & Microservices	Architecture with Services &	Microservice Design & Architecture	Microservice Professional Consulting	Service API Design & Management	Service Governance & Project Delivery	Security for Microservices & SOA
C	ERTIFICATIONS	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									•

Gray circles indicate prerequisite modules.









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