

Chatbot Development

Build smart and interactive chatbots step by step

Duration:

3 months

Starting Date:

Available Now

Price:

PKR. 10,000

MEET YOUR INSTRUCTOR

Dr. Muhammad Hamid is an Assistant Professor at GC Women University, Sialkot. He has 12+ years of teaching and research experience in Artificial Intelligence and Software Engineering. He has also published 30+ research papers and worked on projects in Canada during his Ph.D. His interests include AI, Software Engineering, and Intelligent Diagnosis.



Course Outline

MODULE	LEARNING OUTCOMES
Welcome to Chatbot Development	Welcome to the course on Chatbot Development! In this module you will learn what chatbots are, who this course is designed for, what topics it covers, and how you can benefit by building your own chatbot.
Introduction to Chatbots	This module will uncover the exciting world of chatbots, showing their growing role in businesses and daily life, and explaining the main concepts behind how they work and why they are so popular.
Planning and Design	Planning and design is the foundation of chatbot development. This module equips you with the knowledge and skills needed to define chatbot goals, identify users, and design engaging conversation flows.
Chatbot Platforms	Chatbot platforms provide the tools to create and deploy bots. This module introduces popular platforms like Dialogflow, Rasa, and Botpress, and guides you in selecting the right tool for your project.
Conversation Flow and Personality	This module focuses on creating effective conversation flows and defining chatbot personality. You will learn how to structure dialogues, set tones, and make your chatbot user-friendly and engaging.
Building Your First Chatbot (Python)	In this module, you will gain practical experience by building a simple chatbot using Python. You will learn how to process inputs, handle responses, and apply key programming techniques for chatbot logic.
Natural Language Processing (NLP)	This module introduces the role of NLP in chatbots. You will learn about intents, entities, and training data, and how NLP techniques allow bots to better understand and respond to human language.

Integrations

The module on Integrations provides you with an introduction to connecting your chatbot with platforms such as websites, mobile apps, or messaging services, making your chatbot more accessible and useful.

Testing Chatbots

The module on Testing equips you with methods for evaluating chatbot performance. You will learn to test responses, gather user feedback, and apply improvements for accuracy, speed, and user satisfaction.

Training and Tuning

Training and tuning ensures the chatbot performs well. This module covers refining chatbot responses, retraining with data, and handling errors effectively to maintain accuracy and reliability.

Launching Chatbots

This module introduces you to the steps of launching a chatbot. You will learn about smooth deployment to chosen platforms, monitoring performance, and ensuring a successful launch for real users.

Maintenance and Improvements

This module emphasizes continuous improvement of chatbots. You will learn to track performance metrics, update responses, and adapt your chatbot to new business needs and user feedback.

Ethics and Responsible AI in Chatbots

This module focuses on the ethical side of chatbot use, helping you understand issues of bias, user privacy, and responsible design, while ensuring your chatbot benefits users fairly and transparently.



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