



London TDM

Artificial Intelligence and Data Science Training Courses

Course Venue: Malaysia - Kuala Lumpur

Course Date: From 16 November 2025 To 20 November 2025

Course Place: Royale Chulan Hotel

Course Fees: 6,000 USD

Introduction

This 5-day professional course on "Building Chatbots and Virtual Assistants" is designed to equip participants with practical skills and knowledge essential for developing intelligent conversational agents. From understanding foundational concepts to implementing advanced functionalities, attendees will learn how to build, deploy, and optimize chatbots and virtual assistants for various platforms.

Objectives

- Understand the fundamentals of chatbots and virtual assistants.
- Learn how to design conversational flows and user interactions.
- Acquire the ability to implement natural language processing (NLP).
- Explore integration techniques with popular platforms and APIs.
- Gain insights into best practices for deployment and optimization.

Course Outlines

Day 1: Introduction to Chatbots and Virtual Assistants

- Overview of chatbots and their applications in various industries.
- Types of chatbots: rule-based vs. AI-driven.
- Understanding the architecture of a chatbot system.
- Introduction to popular chatbot development frameworks and tools.
- Setting up the development environment.

Day 2: Designing Conversational Interfaces

- Principles of designing effective conversational interfaces.
- Creating user personas and defining use cases.
- Crafting conversational flows and dialog trees.
- Implementing natural language understanding (NLU).
- Prototyping and testing conversational interfaces.

Day 3: Implementing Natural Language Processing

- Introduction to natural language processing (NLP) and its components.
- Understanding intent recognition and entity extraction.
- Integrating NLP libraries and platforms (e.g., Dialogflow, Rasa).
- Training models for improved language understanding.
- Handling multi-turn conversations and context management.

Day 4: Integrating with APIs and Platforms

- Integration with messaging platforms (e.g., WhatsApp, Facebook Messenger).
- Connecting with third-party APIs for enhanced functionality.
- Leveraging cloud-based services and databases.
- Security considerations and protecting user data.
- Ensuring cross-platform compatibility.

Day 5: Deployment, Testing, and Optimization

- Strategies for deploying chatbots and virtual assistants.
- Testing methodologies to ensure robustness and user satisfaction.
- Analyzing performance metrics and user feedback.
- Continuous improvement and iteration processes.
- Discussing future trends and advancements in chatbot technology.