AI Project Management - 40 hours

Course Overview

The **AI Project Management** course is designed to equip professionals and managers with the ability to lead AI projects end-to-end—from identifying opportunities and defining business value, to managing development and implementation.

Participants will learn how to translate business needs into AI solutions, work effectively with technical teams, and manage processes that connect data, models, and organizational workflows.

The program combines three core elements: understanding AI technologies and their limitations, applying structured project management methodologies, and leveraging business thinking to identify high-value use cases and evaluate ROI.

By the end of the course, participants will be able to take an AI idea, shape it into a structured project, and lead it toward successful implementation within their organization.

Target Audience

- Project managers and product managers
- Business analysts and BI professionals
- Managers involved in innovation processes
- Data and technology professionals aiming to transition into leadership roles
- Business unit leaders interested in identifying and leading AI initiatives

What You'll Gain

- Understanding of GenAI tools and technologies
- Ability to evaluate business value versus development complexity (ROI)
- Skills to define AI use case feasibility
- Capability to scope and plan GenAI projects
- Ability to identify risks in AI projects
- Knowledge and methodology required to manage GenAI projects

Course Syllabus:

Module 1: GenAI Fundamentals

- Introduction to GenAI
- Key differences between traditional AI and GenAI models
- Model types: LLMs, diffusion models, multimodal models
- What is a prompt and its components
- Leading LLM models in the market
- Public models vs. private environments

Module 2: Knowledge Bases for AI Models

- Context and its limitations
- Conversation history
- Textual document sources
- Relational databases
- Embedding models
- Vector databases
- RAG architecture (Retrieval-Augmented Generation)
- Model response quality based on provided data

Module 3: Use Case Identification and Definition

- GenAI project milestones
- Role and responsibilities of business stakeholders
- Understanding business processes
- Identifying pain points, defining business value, and ROI evaluation
- Data sources overview
- Data handling strategies and knowledge base definition
- Data ingestion services
- Data retrieval services
- Project risk assessment

Module 4: GenAI Project Scoping

- Business validation and fine-tuning

- Ongoing quality testing
- Version management
- KPI definition
- MVP definition
- Full project definition
- Key milestones planning

Module 5: Agents, Tools, and Platforms

- Chatbots
- AI agents / Agentic AI
- GenAI workflows (flows)
- Using GenAI tools within agents
- MCP servers
- Model monitoring, tracking, and control
- Leading platforms in the Agentic AI ecosystem

Final Exercise: Business Specification & Requirements Document

Objective:
Develop a comprehensive business specification and project requirements document.

Components:

- Full business case development
- Technical requirements specification
- Project timeline and milestones
- Success criteria and measurement framework