

# **AI+ Project Management Practitioner™ Training**

**Course Duration: 40 Hours**

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### **Module 1: Project Management Overview**

- 1.1 Introduction to Project Management
- 1.2 Project Management Lifecycle
- 1.3 Advanced Project Management Tasks
- 1.4 Project Management Frameworks
- 1.5 Project Manager's Roles and Responsibilities

### **Module 2: Introduction to AI and ML**

- 2.1 Introduction to Artificial Intelligence (AI)
- 2.2 Introduction to Machine Learning (ML)
- 2.3 Neural Networks
- 2.4 AI and ML Applications and Trends
- 2.5 Case Studies on AI and ML Projects

### **Module 3: Data Driven Decision Making**

- 3.1 The Importance of Data in Artificial Intelligence
- 3.2 Data Analysis Techniques
- 3.4 Applying Data Insights to Project Decisions
- 3.5 Tools for Data Visualization and Reporting
- 3.6 Challenges and Best Practices

### **Module 4: AI-Driven Project Risk Management**

- 4.1 AI in Risk Management – An Introduction
- 4.2 AI for Risk Mitigation and Response
- 4.3 AI for Financial and Resource Risk Management
- 4.4 AI in Risk Management: The Future Scope
- 4.5 Case Study – AI-based Project Risk Management

## Module 5: Planning Project Work Breakdown and Structuring and Project Scheduling by AI

### 5.1 Introduction to Work Breakdown Structure (WBS)

### 5.2 AI for WBS Creation

### 5.3 AI in Project Scheduling

### 5.4 AI for Resource-Constrained Scheduling

### 5.5 Case Studies: AI-based WBS and AI Algorithms for Project Scheduling

## Module 6: Effective Project Budgeting Using AI

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### 6.2 AI for Estimating Costs and Budget Allocation

### 6.3 AI for Budget Optimization

### 6.4 Future of AI in Project Budgeting

### 6.5 Case Study: AI Algorithms for Project Scheduling, AI- Based Model for Estimating Costs and Budget Allocation

## Module 7: AI for Planning Human Resources

### 7.1 Introduction to AI in Human Resource Planning

### 7.2 AI for Workforce Allocation

### 7.3 AI in Skill Matching and Employee Performance Analysis

### 7.4 The Future of AI in Human Resource Planning

### 7.5 Case Studies: Designing AI-Based Models for HR Planning

## Module 8: Stakeholder Management Using AI

### 8.1 Introduction to Stakeholder Management and AI

### 8.2 Identifying and Categorizing Stakeholders Using AI

### 8.3 Stakeholder Conflicts Management with AI

### 8.4 Ethics and Future Prospects in AI-based Stakeholder Management

### 8.5 Case Studies: AI Tools for Stakeholder Management

## Module 9: AI-based Project Monitoring

### 9.1 Introduction to Project Monitoring and AI

### 9.2 AI-based Tools for Monitoring Project Progress

### 9.3 AI for Risk Monitoring

### 9.4 Case Studies: AI Tools for Project Monitoring

## Module 10: Transformative Role of Project Management

### 10.1 Current State of AI in Project Management

### 10.2 Ethical Considerations in AI-Based Project Management

### 10.3 Technical Challenges in AI Integration

## Additional Module: AI Agents for Project Management Practitioner

### 1. Understanding AI Agents

### 2. How Does an AI Agent Work

### 3. Applications and Trends of AI Agents in Project Management

### 4. Core Characteristics of AI Agents

### 5. Significance of AI Agents in Project Management

### 6. Types of AI Agents

### 7. Case Study-AI Agents for Agile Project Delivery – Atlassian in Action

### 8. Hands-On Activity