

COGNITIVE PROJECT MANAGEMENT IN AI (CPMAI)[™] V7 — TABLE OF CONTENTS

Cognitive Project Management in AI (CPMAI)[™] v7 Course Overview

This comprehensive 5-day course is designed for professionals seeking to enhance their AI project management skills using the CPMAI methodology. Participants will gain a thorough understanding of AI fundamentals, effective project management strategies, data and model management, and the practical application of AI in real-world scenarios.

Day 1: AI Fundamentals

1. Introduction to Artificial Intelligence

- Definition and Scope of AI
- Historical Evolution of AI

2. Machine Learning & Deep Learning Concepts

- Machine Learning vs. Traditional Programming
- Deep Learning Overview and Applications

3. Learning Methods

- Supervised Learning Techniques
- Unsupervised Learning Strategies
- Introduction to Reinforcement Learning

4. Generative AI Insights

- Generative AI Terminology
- Potential Applications and Case Studies
- Strategic Implementations in Business Contexts

Day 2: AI Project Management & Strategy

1. Principles of AI Project Management

- Defining and Scoping AI Projects
- Importance of Stakeholder Management

2. Seven Patterns of AI

- Identifying Patterns and Frameworks in AI Deployment
- Leveraging Patterns for Enhanced Strategy

3. The CPMAI Methodology

- Overview of the Six Phases:
 - Business Understanding
 - Data Understanding
 - Data Preparation
 - Modeling
 - Evaluation
 - Deployment
- Iterative Processes for Continuous Improvement

4. AI Project Team Management

- Assembling an Effective Project Team
- Roles and Responsibilities in AI Projects

Day 3: Data & AI Model Management

1. Data Preparation for AI Projects

- Essential Data Preprocessing Techniques
- Feature Engineering and Selection

2. Trustworthy AI Principles

- Ensuring Ethics and Fairness in AI
- Managing Bias and Data Quality

3. Blending Business Understanding with Data Insights

- Aligning Data Strategy with Business Goals
- Data-Driven Decision Making

4. From Model Development to Operationalization

- Model Training and Optimization
- Deploying Models into Production
- Monitoring Model Performance and Maintenance

Day 4: Real-World Applications

1. Introduction to Generative AI Strategies

- Role of Generative AI in Current Industry Trends
- Successful Implementation Strategies

2. Case Study Exploration

- Review and Analysis of Successful AI Projects
- Lessons Learned and Best Practices

3. Hands-on Application

- Interactive Workshops and Simulations
- Applying CPMAI Practically in AI Projects

4. Streamlining Workflows with AI

- Automating Processes for Efficiency
- Enhancing Project Outcomes with Intelligent Solutions

Day 5: Integrating and Sustaining AI Success

1. Evaluation and Feedback Mechanisms

- Continuous Improvement Strategies
- Gathering and Utilizing Project Feedback

2. Scalability of AI Solutions

- Planning for AI Growth within Organizations

- Strategies for Scaling Projects Successfully

3. Future Trends in AI and CPMAI

- Emerging AI Technologies and Their Impacts
- Preparing for Future Developments in AI

4. Certifying AI Competency

- Completion Assessment and Certification Process
- Leveraging Certification for Career Advancement

Engage fully in this course to develop the skills needed to succeed in managing AI projects using the proven CPMAI methodology.