







# The Al Revolution in Project Management: Elevating Productivity with Generative Al

# **Table of Contents**

Cover

Title Page

Copyright Page

Contents

**Foreword** 

**Prologue** 

#### 1 DAWN OF A NEW ERA

Not Robots

Al in Action: Swift Project Turnover

Al and Brooks Law

Artificial Intelligence

**ChatGPT** 

**Prompt Engineering** 

Ethical Considerations and Professional Responsibility

Key Points to Remember

**Technical Guide** 

#### 2 STAKEHOLDERS AND GENERATIVE AI

Al in Action: LML Home Improvement

Identifying Project Stakeholders



The Impact of AI on Stakeholder Expectations

Stakeholder Analysis with Al

Engaging Stakeholders through Al-Driven Communication

Al as a Stakeholder for Project Management?

Ethical Considerations and Professional Responsibilities

Key Points to Remember

**Technical Guide** 

#### 3 BUILDING AND MANAGING TEAMS USING AI

Al in Action: Walmart Managing BuyerSeller Negotiations

Al-Assisted Recruitment and Selection

Al-Driven Team Onboarding, Training, and Development

Enhancing Leadership with AI

Using Al Tools to Enhance Team Collaboration

Al in Conflict Resolution and Decision-Making

Ethical Considerations and Professional Responsibility

Key Points to Remember

**Technical Guide** 

# 4 CHOOSING A DEVELOPMENT APPROACH WITH AI

Al in Action: HealthCare.gov

Understanding Predictive, Adaptive, and Hybrid Life Cycle Approaches

Using AI to Select the Right Development Approach for Projects

Tailoring Your Approach with AI

Ethical Considerations and Professional Responsibility

Key Points to Remember



**Technical Guide** 

# 5 AI-ASSISTED PLANNING FOR PREDICTIVE PROJECTS

Al in Action: Toms Planner

Al-Assisted Project Initiation

Al-Assisted Planning

Al-Assisted Project Scope Definition

Al in WBS Creation

Creating a Schedule from the WBS Using AI

AI-Enhanced Cost Estimation and Budgeting

Ethical Considerations and Professional Responsibility

Key Points to Remember

**Technical Guide** 

#### 6 ADAPTIVE PROJECTS AND AI

Al in Action: Transforming the Travel Industry

Adaptive Projects

Scrum Prompts

Agile Estimation

**Project Execution** 

Project Measurement and Tracking

Ethical Considerations and Professional Responsibility

Key Points to Remember

**Technical Guide** 

# 7 MONITORING PROJECT WORK PERFORMANCE WITH AI

Al in Action: Al Tools Battle Meeting Overload



Direct and Manage Project Work

Quality Management with AI

Al in Monitoring and Controlling Project Work

Validating and Controlling Scope, Schedule, and Cost with Al

Ethical Considerations and Professional Responsibility

Key Points to Remember

**Technical Guide** 

#### 8 THE ROLE OF AI IN RISK MANAGEMENT

Al in Action: Managing Risks in the Banking Sector

Risk Identification with AI: Understanding Threats and Opportunities

Enhancing Traditional Risk Identification Methods with Al

Qualitative Risk Analysis and Al

Quantitative Risk Analysis and Al

Al in Risk Responses

AI in Risk Monitoring

Ethics and Professional Responsibility

Key Points to Remember

**Technical Guide** 

#### 9 FINALIZING PROJECTS WITH AI

Al in Action: Verification and Validation

Releasing Products and Services

Verifying and Validating Project Deliverables and Usability
Testing with AI

Deployment with Knowledge from Al

**Project Closure** 



Value Delivery

Ethics and Professional Responsibility

Key Points to Remember

**Technical Guide** 

#### 10 AI TOOLS FOR PROJECT MANAGEMENT

Value and Implications of Al-Integrated Tools for Project Managers

Factors to Consider When Evaluating Al Tools

**Project Management Systems** 

Scheduling Tools

Communication and Meeting Tools

Productivity and Documentation Tools

Collaboration and Brainstorming Tools

Ethics and Professional Responsibility

Key Points to Remember

**Technical Guide** 

#### 11 LOOKING AHEAD

Al in Action: Health Cares Enterprise Landscape

Embrace of AI Is a Boon to Project Management

The AI-Powered Future in Enterprises

Risks from AI

Introduce Al Solutions Only to Address a Need

Closing Remarks

**INDEX** 

