

Power of Generative AI(2 Days)

Chapter 01: Introduction to Generative AI and its Industry Applications

- What is Generative AI?
- Significance of Generative AI & The Role of Leadership in Today's World
- Introduction to Highly Used Top 10 AI tools, example (Generative AI for Image, Excel, PPT, Code, Design)
- Generative Models and Application of Generative Models
- Practical Applications & Understanding the Capabilities of AI - With Management Perspective
- Practical Applications & Understanding the Capabilities for software development teams using AI tools

Chapter 02: Use Cases for Management

- Excel Data Representation with Generative AI
- Generating Reports and Dashboards
- Enhancing Data Visualization with AI
- Using Generative AI to Create Presentation Slides
- Designing Effective Presentation Outlines

Chapter 03: Use Cases for End Users

- Usecase 1: Excel data analysis and management reporting.
- Usecase 2: Generate test case and compare and show it with developer written test case.
- Usecase 3: Performance Optimization Prompt
- Usecase 4: Business Communication and Proposals Proposals
- Usecase 5: Project Planning and other project use cases.
- Usecase 6: Competency Assessment for the team for AI Aided Approach.
- Usecase 7: Using MS Tools empowered with AI Capabilities.

Chapter 04: Prompt Engineering

- What is Prompt Engineering?
- Importance and Applications
- Prompt Design Strategies
- Types of Prompting
- Crafting Effective Prompts
- Parameter Tuning

Chapter 05: Use Cases for Developers

Prompts for :

- Effective Code Review (Generic C code, CUBAS Code review). Demonstrate the Code Review Comments.
- Automatic code generation from natural language descriptions
- Code translation from Java to C
- Automated code review
- Test case generation
- Bug detection and localization
- Automatic documentation from code
- Vulnerability detection
- Generating UI/UX elements

Chapter 06: Personal Chatbots

- Learning Assistant: Facilitating knowledge sharing. Build a learning assistant that provides detailed explanations of various topics based on user prompts. For example, a user might ask "what is Autosar " and the system should provide a detailed yet understandable explanation.
- AI Chatbot: Develop a simple AI chatbot that can handle basic conversational prompts and respond accordingly. This can be a general-purpose chatbot or one focused on a specific domain, such as Automotive, customer service, or Organisation Purpose.