



Unleashing AI for Business Analysis: Mastering Practical Applications for Success

Unlock the potential of AI-driven business analysis with our cutting-edge course, 'Unleashing AI for Business Analysis: Mastering Practical Applications for Success' Dive deep into the world of AI and ChatGPT 4 as you learn to master the art of eliciting, modeling, and analyzing requirements like never before. Whether you're a seasoned Business Analyst, a Project Manager looking to stay ahead of the curve, or an IT Consultant seeking to enhance your skill set, this course is tailor-made for you. Join us on an immersive journey where you'll discover the power of NLP, ML, and Sentiment Analysis in revolutionizing the way you approach business analysis.

Fully interactive class with practical examples utilizing case studies and exercises. This course is 100% hands on!

Course Description:

This course is designed to teach participants how to effectively use AI and ChatGPT 4 in the context of business analysis, focusing on eliciting, modeling, and analyzing requirements. It integrates key concepts from Natural Language Processing, Data Mining, Machine Learning, and Sentiment Analysis to enhance the requirements engineering process. Participants will also learn about automated documentation techniques to streamline their workflows.

Learning Outcomes:

Participants will learn to:

- Efficiently use AI and ChatGPT 4 for eliciting business requirements from stakeholders and the ability to use other AI NLPs
- Apply NLP and ML techniques to model and analyze requirements
- Leverage Sentiment Analysis for understanding stakeholder feedback
- Automate the documentation process for requirements engineering

Target Audience:

- Business Analysts
- Requirements Engineers
- Project Managers
- IT Consultants
- Product Managers

Prerequisites:

- Understanding of business analysis and requirements engineering
- Understanding common business analysis techniques (use case modeling, stakeholder analysis, functional decomposition, and others)
- Understanding Agile principals and artifacts (epics, user stories, acceptance criteria)
- Familiarity with software development processes (SDLC)
- Access to ChatGPT version 4. ChatGPT version 3.5 will have less functionality
- You will need to download examples and data files to your local system.
- You will need to upload case study data to ChatGPT via a prompt
- Number of prompts limits may apply

Course Duration:

3 Days

Course Contents

Module 1: Introduction to ChatGPT 4 and Requirements Engineering

- The Evolution and history of AI.
- Understanding the components of AI and the AI Context Model.
- The BA Role adds value in Data Acquisition, External Domain Data, Model Training, Prompt Tools, Learning Models, Response Generation, Response Integration, Data and Model Security, and Response Validation.
- The Role of AI in requirements elicitation, modeling, and analyzing
- Setting up your environment - tools, security and privacy

Module 2: Using AI for Requirements Engineering

- AI integration into Business Analysis - requirements elicitation, requirements modeling, solution design, market analysis, customer analysis, and more
- Introduction to prompts
- Utilize the different types of prompts
- Explore having the AI act as an expert
- Designing prompts for the best results
- Understanding response flaws
- Sparring with the AI
- Understanding prompt contrasting
- Summarizing prompt responses
- Designing prompts, MEGA prompts, and prompt chaining

Module 3: Eliciting Requirements

- Strategies for using AI to gather requirements from stakeholders
- Document Analysis
- Sentiment Analysis
- Stakeholder Interview Questions
- Requirements for a specific persona
- AI Assisted Brainstorming
- SWOT Analysis
- Stakeholder Mapping
- Requirements Documentation - Business Requirements Document (BRD)
- Gap Analysis
- Business Rules Extraction
- Epic and User Story Generation
- Decision Matrix
- Creating a Scope Statement
- Generating Requirements for a System Change

Module 4: Modeling Requirements

- Requirements Prioritization
- Use Case Model
- Use Case Generation
- Process Reviews
- Interface Design - User Centric Design
- RACI Matrix
- Acceptance Criteria
- Requirements Categorization
- Domain Modeling
- Business Capability Mapping
- Requirements Testing
- Backlog Prioritization
- Data Flow Diagramming
- PERT Estimating
- SIPOC Model
- KANO Analysis
- Success Criteria
- Functional Decomposition Diagram
- Customer Journey Mapping
- Process Modeling

Module 5: Advanced NLP for Requirements Analysis

- Using AI for Creating Prompts, Diagrams, and Visuals
- Strategy for Converting Responses to Diagrams
- Diagram Tools

Module 6: Introduction to Data Mining with NLP

- Basics of ML and Data Mining and their application in analyzing requirements
- Pattern recognition in requirements to identify inconsistencies and dependencies
- Understanding dependencies, summarizing findings, planning validation and clarification with stakeholders

Module 7: Analyzing Requirements

- Identifying Business Value
- Assess Implementation Complexity
- Determine Risk Levels
- MoSCoW Prioritization Method

Module 8: Documentation of Requirements

- Techniques for automated generation of requirements documents
- Building and Using Response Templates
- Using AI to create, update, and maintain requirement specifications

Module 9: Sentiment Analysis in Stakeholder Feedback

- Leveraging sentiment analysis to understand stakeholder feedback
- Customer feedback analysis
- Understanding stakeholders meaningfully