



AI Business Analysis – Detailed Curriculum Outline

- Course Duration: 3 Months
- Format: Hands-on, project-based, instructor-led

- **Tools & Technologies:** SQL, AI productivity tools (ChatGPT, Copilot, Gemini), AWS Cloud, BA documentation tools, Data modeling tools, JIRA, Visio, Python basics (optional), and more.

Month 1: Foundations of Business Analysis & AI Concepts

Module 1: Introduction to AI Business Analysis

- What is AI Business Analysis?
- Differences between traditional BAs and AI-enabled BAs
- Key BA Skills in an AI-driven workplace
- Overview of AI in business systems
- Understanding AI/ML at a high level for Business Analysts

Module 2: Requirements Gathering in an AI Environment

- Traditional vs. AI-specific requirements
- How to gather requirements for automation, AI features, and predictive tools
- AI-first requirements templates
- Elicitation techniques with AI productivity assistance
- Identifying data requirements for AI solutions

Module 3: Stakeholder Management in AI Projects

- Stakeholder types in AI initiatives
- Communicating AI capabilities and limitations
- Managing expectations around AI features
- Conflict resolution when AI affects roles/processes
- BA communication tools and AI-assisted documentation

Module 4: SQL Foundations for Business Analysts

- Database concepts and terminology
- Writing SQL queries to analyze datasets

- Filtering, sorting, grouping, and summarizing data
- Using SQL to validate requirements and support AI models
- *Hands-on exercises with AWS-hosted SQL databases*

Month 2: AI-Enhanced SDLC, Process Modeling & Documentation

Module 5: AI-Enhanced SDLC

- Understanding SDLC and where AI fits
- Agile & Scrum in AI projects
- AI product lifecycle (data → model → deployment → monitoring)
- Roadmapping AI solutions

Module 6: BA Documentation in AI Projects

- Functional Requirements Documents (FRDs) for AI systems
- User Stories and Acceptance Criteria for AI features
- AI-specific artifacts:
 - Data dictionaries
 - Model requirement briefs
 - Data flow charts
 - AI decision boundaries
- Change Request documentation for AI enhancements

Module 7: Process Modeling & Automation

- Process mapping (AS-IS vs TO-BE)
- Identifying automation opportunities
- Modeling intelligent workflows
- Using AI tools to draft diagrams and flows
- Hands-on practice with real business application processes

Module 8: Tools for AI Business Analysts

- JIRA for AI product backlogs
- Visio for AI-enabled process flow diagrams
- AI testing tools & analytics dashboards
- Prompt engineering for BA use cases
- Using AI tools to create documents, test cases, and prototypes

Month 3: Real-World AI Project Simulation & Advanced Concepts

Module 9: Data Literacy for Business Analysts

- Understanding data types for AI models
- Data quality assessment for BA requirements
- Working with datasets for requirement validation
- SQL deep-dive for data analysis

Module 10: AI Solution Design & Testing

- Designing AI-supported features
- Evaluating AI outputs from a BA perspective
- Creating acceptance criteria for AI behavior
- Testing AI features (accuracy, bias, performance)
- Ethical and responsible AI considerations

Module 11: End-to-End AI Project Case Study

Students will work on a live, AI-enabled business application:

- Requirements gathering
- Process mapping
- Data analysis
- AI feature design
- Creating all BA deliverables
- Presenting solution findings in a final capstone presentation

Module 12: Career Development & Industry Preparation

- Resume building for AI Business Analysis roles
- Interview preparation (AI BA mock interviews)
- Portfolio building
- LinkedIn optimization
- Job placement guidance