

# *AI Business Analyst*

## *Transform Businesses with AI and Agile Expertise*

This **16-week AI Business Analyst** Course Curriculum equips learners with skills in business analysis, data analytics, operations management, risk management, continuous improvement, AI adoption, change management, and Agile Scrum methods.

Designed for a blend of theory, practical exercises, and hands-on projects, the course emphasizes leveraging AI and iterative Agile practices to drive business success.

Structured in 3 phases, this course ensures progressive learning and impactful outcomes.

**100% Placement Assistance, Internship, Professional Profile Preparation, Interview Readiness**

## *Course Overview*

**Duration:** 16 weeks

**Format:** Weekly / Weekend modules with lectures, hands-on exercises, case studies, and a capstone project. Online / Offline modes available

**Prerequisites:** Basic understanding of business concepts; familiarity with MS Office / similar tools.

## *Assessment:*

- Assignments (40%): Exercises, case studies, quizzes.
- Mid-term project (20%): Group/individual project using Scrum.
- Capstone project (30%): Comprehensive report and presentation.
- Participation (10%): Engagement in discussions and workshops.

## *Learning Phases and Outcomes*

### ***Phase 1: Foundations of Business Analysis, Analytics, and Agile (Weeks 1–5)***

**Objective:** Build a strong foundation in business analysis, data analytics, operations management, and Agile Scrum basics.

## *Key Learnings:*

- Understand business analyst roles and AI's transformative impact.
- Master requirements elicitation, stakeholder management, process modeling, and Scrum fundamentals.
- Develop data analytics skills, including visualization and basic statistics.
- Explore operations management concepts like supply chain and process optimization.

## **Weekly Breakdown:**

### **Week 1: Introduction to Business Analysis and AI**

- ✓ **Topics:** Business analyst roles, AI applications (automation, predictive analytics).
- ✓ **Activities:** Case study (e.g., Amazon's AI strategy), discuss AI-solvable problems.
- ✓ **Tools:** MS Office, Miro.

### **Week 2: Business Analysis and Agile Scrum Fundamentals**

- ✓ **Topics:** Requirements documentation, stakeholder analysis, BPMN modelling, Scrum basics (roles, sprints, backlog).
- ✓ **Activities:** Mock stakeholder interview, process flowchart creation, simulate a Scrum sprint planning session.
- ✓ **Tools:** Draw.io, Jira (for Scrum boards).

### **Week 3: Data Analytics for Business Analysts**

- ✓ **Topics:** Descriptive to prescriptive analytics, data collection, basic statistics.
- ✓ **Activities:** Dataset analysis in Excel, trend identification case study.
- ✓ **Tools:** Excel, Google Sheets.

### **Week 4: Advanced Data Analytics and Visualization**

- ✓ **Topics:** Data visualization, Python/R basics, decision-making insights.
- ✓ **Activities:** Build a dashboard (Tableau/Power BI), present dataset insights.
- ✓ **Tools:** Tableau, Power BI, Python (Pandas, Matplotlib).

### **Week 5: Operations Management Basics**

- ✓ **Topics:** High level business process flow, Incident management, Lean and Six Sigma basics.
- ✓ **Activities:** Supply chain bottleneck case study, process improvement mapping.
- ✓ **Tools:** Trello, Excel.

## **Phase 2: Risk, Improvement, and AI Integration with Agile (Weeks 6–10)**

**Objective:** Master risk management, continuous improvement, AI adoption, and Agile Scrum practices.

### **Key Learnings:**

- ✓ Identify, assess, and mitigate business risks.
- ✓ Apply Lean, Six Sigma, and Kaizen for process improvement.
- ✓ Evaluate and integrate AI solutions for business challenges.
- ✓ Practice Scrum in project delivery for iterative outcomes.

### **Weekly Breakdown:**

#### **Week 6: Risk Management Principles**

- ✓ **Topics:** Risk identification, assessment frameworks, mitigation strategies.
- ✓ **Activities:** Create a risk register, analyze a failed project case study.
- ✓ **Tools:** Risky-Project, Excel.

#### **Week 7: Continuous Improvement Principles**

- ✓ **Topics:** Lean value stream mapping, Six Sigma DMAIC, Kaizen.
- ✓ **Activities:** Value stream mapping exercise, Six Sigma project plan.
- ✓ **Tools:** Minitab, Draw.io.

#### **Week 8: Mid-Term Project with Agile Scrum**

- ✓ **Project:** Analyze a business case (requirements, data, process optimization, risks) using Scrum sprints.
- ✓ **Activities:** Group collaboration in Scrum framework, deliver iterative artifacts, peer-reviewed presentation/report.
- ✓ **Tools:** All prior tools, Jira.

#### **Week 9: AI Adoption in Business**

- ✓ **Topics:** AI technologies (ML, NLP), use cases, evaluating AI solutions.
- ✓ **Activities:** Evaluate an AI tool, discuss AI ethics.
- ✓ **Tools:** Open Source Free tools

#### **Week 10: AI Tools for Business Analysts**

- **Topics:** No-code AI platforms, predictive modelling, process automation.
- **Activities:** Build a predictive model, automate a task with AI (Zapier).
- **Tools:** DataRobot, Zapier, Google Colab.

### **Phase 3: Change Management, Strategic AI, and Agile Leadership (Weeks 11–16)**

**Objective:** Lead AI-driven change, strategic decision-making, and Agile Scrum projects.

#### **Key Learnings:**

- ✓ Manage organizational change using ADKAR, Kotter, and Scrum.
- ✓ Implement AI-driven change with stakeholder engagement.
- ✓ Use AI for advanced risk prediction and strategic analysis (SWOT, PESTLE).
- ✓ Deliver a comprehensive AI-driven project using Scrum methodology.

## **Weekly Breakdown:**

### **Week 11: Change Management and Agile Scrum**

- ✓ Topics: ADKAR, Kotter's 8-Step model, overcoming resistance, Scrum for change projects.
- ✓ Activities: Analyze a change initiative case study, simulate a Scrum-driven change meeting.
- ✓ Tools: Prosci tools, Jira.

### **Week 12: Implementing AI-Driven Change**

- ✓ **Topics:** Cultural shifts for AI, team upskilling, measuring success.
- ✓ **Activities:** Develop an AI change management plan, discuss employee concerns.
- ✓ **Tools:** ADKAR templates, Trello

### **Week 13: Risk Management and Compliance**

- ✓ **Topics:** Risk Assessment, Risk Compliance Standards, Business Continuity Process
- ✓ **Activities:** Prepare a Risk Register for End to End business process
- ✓ **Tools:** Excel, Draw.io, PPT, Jira

### **Week 14: Strategic Business Analysis with AI**

- ✓ **Topics:** SWOT, PESTLE, AI for market analysis, forecasting.
- ✓ **Activities:** AI-driven market trend case study, SWOT analysis with AI.
- ✓ **Tools:** Crayon, Tableau.

### **Week 15: Capstone Project Preparation with Agile Scrum**

- ✓ **Project:** Design a Business Analysis project for a critical business process lifecycle (real-world problem) using Scrum sprints.
- ✓ **Activities:** Submit project proposal, gather data, manage sprints in Jira.
- ✓ **Tools:** All prior tools, Jira.

### **Week 16: Capstone Project Presentation and Course Wrap-Up**

- ✓ **Activities:** Present capstone project, peer review, reflect on learning.
- ✓ **Topics:** Career paths, staying updated with AI and Agile trends.
- ✓ **Tools:** PowerPoint, Zoom.