AI Business Analyst Course Syllabus

Section 1: Introduction to AI for Business Analysts– 3 Hours

➢ Understanding AI and its relevance in business analysis
➢ Key AI concepts: Machine Learning, Natural Language Processing, Predictive Analytics
➢ Role of AI in modern business decision-making
➢ Case studies of AI-driven business improvements

Section 2: Data Fundamentals for AI Business Analysis – 3 hours

➢ Types of data: structured, unstructured, semi-structured
➢ Data sources in business environments
➢ Data cleaning, preparation, and integration basics
➢ Importance of data quality in AI

Section 3: AI-Powered Data Analysis Tools – 3 hours

➢ Overview of AI-enabled analytics platforms (Power BI, Excel AI, Tableau AI, etc.)
➢ Automated insights and AI recommendations
➢ Trend detection and anomaly identification
➢ Practical exercises with AI data tools

Section 4: Natural Language Processing (NLP)– 3 hours

➢ Understanding NLP and text analytics
➢ Sentiment analysis for customer feedback
➢ Keyword extraction and categorization
➢ Real-world applications of NLP in business

Section 5: Predictive & Prescriptive Analytics – 3 hours

➢ Introduction to predictive modeling
➢ Forecasting sales, demand, and trends with AI
➢ Prescriptive analytics for decision support

➢ Using AI to optimize business strategies

Section 6: AI in Business Process Automation – 3 hours

➢ Overview of Robotic Process Automation (RPA)
➢ AI for workflow optimization
➢ Automating repetitive analytical tasks
➢ Integration of AI with business applications

Section 7: AI-Driven Dashboards & Reporting – 3 hours

➢ Building AI-powered interactive dashboards
➢ Automating report generation
➢ Personalizing insights for different stakeholders
➢ Hands-on with AI dashboard tools

Section 8: Ethics in AI Business Analysis – 2 hours

➢ AI transparency and fairness
➢ Data privacy regulations (GDPR, CCPA, etc.)
➢ Avoiding bias in AI-driven decisions
➢ Ethical decision-making with AI insights

Section 9: AI Project Lifecycle for Business Analysts – 3 hours

➢ Defining AI business problems
➢ Data gathering, modeling, and testing phases
➢ Collaborating with data scientists and developers
➢ Measuring AI project ROI and impact

Section 10: Future Trends & Career Opportunities- 2 hours

➢ Emerging AI technologies for business analytics
➢ AI's role in digital transformation
➢ Upskilling paths for AI Business Analysts
➢ Career growth opportunities and certifications