- 1. Predictive Analytics: Concept, Use Cases & Most Popular Tools
- I. Introduction to Predictive Analytics
- · What is Predictive Analytics?
- · Evolution from Descriptive → Diagnostic → Predictive → Prescriptive Analytics
- \cdot Key Benefits and Challenges
- II. Predictive Analytics Techniques & Concepts
- · Supervised vs. Unsupervised Learning
- · Regression Analysis (Linear, Logistic)
- · Classification (Decision Trees, Random Forest, SVM)
- · Time Series Forecasting
- · Anomaly Detection
- III. Industry Use Cases
- · Predicting Customer Churn (Telecom, Banking)
- · Demand Forecasting (Retail, Supply Chain)
- · Fraud Detection (Finance, Insurance)
- IV. Popular Tools for Predictive Analytics
- · Python (scikit-learn, Pandas)
- · Power BI