

## **Data Science Methodology —formula**

**Level:** Beginner to Intermediate

**Duration:** 6 weeks (12 sessions × 40 min each ≈ 8 hours)

**Audience:** Learners who understand basic Python or data concepts

**Course Goal:** Teach learners how to structure, execute, and evaluate data science projects using industry-standard methodology (CRISP-DM).

**Course Fees:**

- **Self-paced version: \$100**
- **Live instructor-led (12 sessions): \$150**

### **Learning Objectives**

By the end of this course, students will be able to:

#### **CRISP-DM Mastery**

- Understand all 6 stages: Business Understanding, Data Understanding, Data Preparation, Modeling, Evaluation, Deployment.
- Apply the methodology to real problems.

#### **Experiment Design**

- Formulate hypotheses.
- Define analytical goals.
- Identify required data and metrics.

#### **Model Evaluation Skills**

- Choose appropriate evaluation metrics.
- Interpret accuracy, precision, recall, F1, RMSE, and more.
- Understand overfitting, bias, and model errors.

#### **Communication Skills**

- Summarize project findings clearly.
- Present insights with charts and structured storytelling.

#### **Project Execution**

- Complete a full mini-project from business problem → final recommendation.

## **Data Science Methodology**

- **Audience:** Beginners to intermediate
- **Duration:** 6 weeks × 2 sessions/week × 40 min = 12 sessions
- **Learning Objectives:** CRISP-DM methodology, experiment design, evaluation
- **Weekly Breakdown:**
  1. Week 1: Problem identification & business understanding
  2. Week 2: Data understanding & cleaning
  3. Week 3: Modeling – introduction
  4. Week 4: Model evaluation metrics
  5. Week 5: Reporting & presenting results
  6. Week 6: Mini-project applying full CRISP-DM cycle

## **End-of-Course Deliverables**

- ✓ Full methodology report
- ✓ Evaluation summary
- ✓ Final presentation slides
- ✓ Completed mini-project