

# AI and its Application

## Course Syllabus

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### Week 1: Python Programming & Data Tools

- **Day 1:** Introduction to Python and Course Overview
- **Day 2:** Data Structures in Python
- **Day 3:** Modular Programming in Python
- **Day 4:** File Handling and Exceptions
- **Day 5:** NumPy Basics
- **Day 6:** Pandas and Matplotlib
- **Day 7:** MCQ Exam

### Week 2: Statistics & Data Analysis

- **Day 1:** Basic Statistics (mean, median, mode)
- **Day 2:** Linear Algebra
- **Day 3:** Probability Basics
- **Day 4:** Exploratory Data Analysis 1 (EDA1)
- **Day 5:** Exploratory Data Analysis 2 (EDA2)
- **Day 6:** Exploratory Data Analysis 3 (EDA3)
- **Day 7:** MCQ Exam or EDA Project