Python Mastery Python for Paper Writing & Research Course Syllabus

Basic Concepts

Basic Python

Knowledge

Mathematics & Equations
Solving

Numerical Computation Exploratory Data Analysis

Data Visualization

Data preprocessing

Note: At end of each section practices & quizzes will unlock in your profile including the needed course review materials





Python Knowledge needed

- Programming Simple Mathematics
- Variables
- Data Types
- Formatting Text Output
- Importing Modules
- Pitfalls When ProgrammingMathematics
- Loops for Automating Repetitive
 Tasks
- Boolean Expressions
- Using Containers to Store Sequences of Data
- Iterating Over a Containers with via for Loop
- Control flows
- Functions
- 00P
- Equations with Python Functions
- Test Functions
- Handling Errors





Math

- Solve scientific and
 mathematical problems, and
 Extensive numerical
 computation using Numpy &
 SciPy
- Tips & Techniques





Data

- Exploratory Data Analysis &
 Data preparation, Data
 wrangling, Data cleaning &
 altering using Pandas
- Tips & Techniques





Visualization

- Data Visualization and presentation using Matplotlib
 & Seaborn
- Tips & Techniques





Preprocessing

- Data Preprocessing pipeline
- Tips & Techniques



Projects

Analytical Projects



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