Data science in python

# Section 1: Getting Started

1: Python Setup

2: Python Arithmetic

3: Basic Data Types

# Section 2: Data Structures

4: Variables

5: Lists

6: Tuples and Strings

7: Dictionaries and Sets

8: Numpy Arrays

9: Pandas DataFrames

10: Reading and Writing Data

# Section 3: Programming Constructs

11: Control Flow

12: Defining Functions

13: List and Dictionary Comprehensions

# Section 4: Data Exploration and Cleaning

14: Initial Data Exploration and Preparation

15: Working With Text Data

16: Preparing Numeric Data

17: Dealing With Dates

18: Merging Data

19: Frequency Tables

20: Plotting with pandas

# Section 5: Basic Statistics

21: Descriptive Statistics

22: Probability Distributions

23: Point Estimates and Confidence Intervals

# Section 6: Inferential Statistics

24: Hypothesis Testing and the T-Test

25: Chi-Squared Tests

26: Analysis of Variance (ANOVA)

# Section 7: Regression & Classification

27: Linear Regression

28: Logistic Regression

29: Decision Trees

30: Random Forests

# Section 8 Clustering

# Section 9 Association