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Week 1: (1/15 - 1/21)

# Data Science Lifecycle, Python And Pandas

#### 1.0.1 Piazza

Must post / respond to two Piazza posts. (1/23/24)

### 1.0.2 Lectures

The lecture videos for this week are:

- Course Overview  $\approx 54$  min.
- Pandas Part  $1 \approx 54$  min.
- Pandas Part  $2 \approx 54$  min.
- Python Walkthrough  $\approx 47$  min.
- Learning to Use Jupyter Notebooks  $\approx 9$  min.
- Using Markdown In Jupyter Notebooks  $\approx 11$  min.
- Writing Mathematics In Jupyter Notebooks  $\approx 16$  min.
- Beginning Python  $\approx 44$  min.
- Python Basic NumPy  $\approx 18$  min.
- Quick Calculus Refresher  $\approx 21$  min.

The lecture notes for this week are:

- Course Overview Data Science Lifecycle
- Pandas Part 1
- Pandas Part 2
- LATEX

### 1.0.3 Assignments

The assignment for this week is:

• The assignment for this week is **Data Science Lifecycle**, **Python And Pandas**. (1/23/24)

### 1.0.4 Quiz

The quizzes for this week are:

• Math Concept Quiz • Finalized Math Concept Quiz (1/30/24)



### Week 2: (1/22 - 1/28)



# Pandas, Exploring And Cleaning Tabular Data

### 2.0.1 Piazza

Must post / respond to two Piazza posts. (1/30/24)

#### 2.0.2 Lectures

The lecture videos for this week are:

- Pandas Part  $3 \approx 54$  min.
- Pandas Part  $4 \approx 54$  min.
- Discussion 2 Video Walkthrough: Basics with Pandas and In-Depth with NumPy  $\approx 73$  min.

The lecture notes for this week are:

- Pandas Part 3
- Pandas Part 4
- Permutations And Combinations
- Section 7.1 Intro To Discrete Probability
- Section 7.2 Probability Theory And Applications

### 2.0.3 Assignments

The assignment for this week is:

• The assignment for this week is Pandas, Exploring And Cleaning Tabular Data. (1/30/24)

### 2.0.4 Quiz

The quizzes for this week are:

• Python And Pandas Quiz • Finalized Python And Pandas Quiz (1/30/24)