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

Week 3: (1/29 - 2/4)



Exploratory Data Analysis And Visualization

3.0.1 Piazza

Must post / respond to two Piazza posts. (2/6/24)

3.0.2 Lectures

The lecture videos for this week are:

- Lecture 6: Data Wrangling And EDA ≈ 54 min.
- Lecture 7: EDA And Visualization ≈ 54 min.
- Lecture 8: Quiz Walkthrough And Visualization ≈ 54 min.
- Discussion 3: More With Pandas ≈ 50 min.

The lecture notes for this week are:

- Pandas Part 4
- Exploratory Data Analysis
- Visualization

3.0.3 Assignments

The assignment for this week is:

• The assignment for this week is Exploratory Data Analysis And Visualization. (2/6/24)

3.0.4 Quiz

The quizzes for this week are:

• Math And Pandas Quiz • Finalized Math And Pandas Quiz (2/6/24)