

Python for Data Science

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1 Introduction and Course Information

2 Week 1: Getting Started with Data Science

Course Week 1: Getting Started with Data Science Engagement: How Data Science Happens
Video: How Does Data Science Happen

3 Week 2: (Optional) Background in Python and Unix

4 Week 3 - Jupyter Notebooks and Numpy

5 Week 4 - Pandas

6 Week 5 - Data Visualization

7 Week 6 - Mini Project Week

8 Week 7 - Introduction to Machine Learning

9 Week 8 - Working with Text and Databases

10 Week 9 - Final Project Part 1

11 Week 10 - Final Project Part 2

References

- [1] A. C. Melissinos and J. Napolitano, *Experiments in Modern Physics*, (Academic Press, New York, 2003).