Python for Data Science

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- 1 Introduction and Course Information
- 2 Week 1: Getting Started with Data Science
- ACQUIRE
- PREPARE
- ANALYZE
- REPORT
- \bullet ACT

Data preperation is very important to do.

Select tequique , build model - evaluate - calssification - regression - clustering - association - analysis - graph analysis

- 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

Course Week 5 - Data Visualization Engagement: Introduction to Data Visualization Video: Types of Visualizations

- 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).