## Python for Data Science

N. Ceylan

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## 1 Introduction and Course Information

- 2 Week 1: Getting Started with Data Science
- ACQUIRE
- PREPARE
- ANALYZE
- REPORT
- ACT

Data preparation 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

Course Week 2: (Optional) Background in Python and Unix Python: Key Data Structures Video: String Functions

- 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).