Data Science+

Intro to Data Science in Python & Machine Learning

<table>
<thead>
<tr>
<th>5 Weeks</th>
<th>10-20</th>
<th>Intermediate/Advanced</th>
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<tr>
<td>Online, Part-Time</td>
<td>Hours/Week</td>
<td>Friendly Course</td>
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Overview

This is a modern and comprehensive introduction to data science and machine learning in Python.

By the end of the course, you’ll walk away with a work applicable understanding of the Data Science process and how to use the methodologies and tools to solve real-world problems in business and academia.

Core Concepts, Real Data-Sets

In 5 weeks, you’ll learn the principle concepts and technologies behind modern Data Science, and work on real data-sets and problems to put your learning into practice.

All from the comfort of your own home.

End-to-End, Extensive Curriculum

We’ll cover the full Data Science process and the technologies to do the job, from data prep with Python libraries, to data modeling in SciKit-Learn, to visualization and presentation with Bokeh.

What You’ll Cover

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Data Prep in Python

Intro to Data Analysis

Data Modeling & Machine Learning

Data Visualization & Project Week

Week 1

Week 2

Week 3

Weeks 4 and 5

Weekly Class Sync

1 hour sync with class for lectures and lectures

Self-study

Readings, assignments, and project work

Office Hours

2 office hours sessions per week
Inside Your Curriculum

**Week 1**
**Data Prep w/ Python & DS Libraries**
Learn the many ways of preparing and cleaning data with Python and scientific libraries, such as Pandas and Numpy.

Technologies you’ll learn: Python, Pandas, Numpy

**Week 2**
**Data Analysis & Scientific Visualization**
Analyze, explore, and visualize large data sets in the same way that real Data Scientists do on the job.

Technologies you’ll learn: Matplotlib, Seaborn

**Week 3**
**Data Modeling & Machine Learning**
Use regression and classification to generate usable info from raw data. Use decision trees and random forests via SciKit-Learn, a machine learning library in Python.

Technologies you’ll learn: ScitKit-Learn

**Weeks 4 and 5**
**Data Visualization & Project Week**
Put your learning from the last 3 weeks to the test and present/visualize a large-scale Data Science project.

Technologies you’ll learn: Bokeh