# The Data Incubator

DATA SCIENCE
ESSENTIALS
CERTIFIED
THE DATA INCUBATOR

## Data Science Essentials

*Data Science Essentials* from The Data Incubator is an 8-week online class designed to strengthen your data skills—whether it's to improve your core data wrangling and analysis, or to qualify for our more intense bootcamps. In this course, you'll be given the tools to extract, clean, and analyze data using Python. Data Science Essentials can act as a prep class for students applying to our data bootcamps, and builds skill sets in two areas essential to the program: the ability to code proficiently in Python and the ability to apply statistical methodology to datasets.

# Program Outline

In Data Science Essentials, you'll leverage Python's powerful libraries to build predictive models to make better decisions, and help employers solve business problems using data-driven insights. The program runs for 8 weeks, with classes twice per week (check our registration page for which days, as they do change each session). Classes run for 2 hours, starting at 7 PM ET, and we offer office hours for a half hour each day. Data Science Essentials includes 5 hours of lectures each week. We recommend setting aside at least 5 additional hours each week for reviewing lectures and working on associated projects

| Topic |
| --- |
| **Data files and Formats**<br>**Object-Oriented Programing** |
| **NumPy**<br>**Introduction to Pandas** |
| **Pandas Data Aggregation**<br>**Pandas Time Series** |
| **Data Visualization**<br>**Regular Expressions** |
| **Introduction to Machine Learning**<br>**Regression** |
| **Bias, Variance and Overfitting**<br>**Scikit-learn API**<br>**Intro to Classification** |
| **Classification: Predicting Customer Churn**<br>**Dimensionality Reduction** |
| **Clustering**<br>**Scikit-learn Workflow** |

For a more detailed outline, visit **TheDataIncubator.com/programs/data-science-essentials**

# Who It's For

This course is for you if you're:

- Interested in data science and want to learn essential skills

- New to Python and are looking for a more robust, structured learning program

- A data analyst, economist or researcher who works with large datasets and wants to make analysis easier and more effective with Python

- Interested in applying to TDI's Data Bootcamps

# Data Science Bootcamp Prep

Data Science Essentials can act as a prep class for students applying for our Data Science Bootcamp, and builds skill sets in two areas essential to the program: the ability to code proficiently in Python, and the ability to apply statistical methodology to datasets.

Successfully complete Data Science Essentials and you'll automatically earn admission into the next TDI Data Science Bootcamp cohort. Plus, we'll taks $1,000 off your tuition[1]!

# Skills and Programs



# The Data Incubator
## A Pragmatic Institute Company

Learn more by visiting:
TheDataIncubator.com

[1] The Data Essentials tuition discount applies to direct payment only and cannot be combined with any other enrollment discounts or offers. Students funding the program through loans are ineligible for the Data Essentials tuition discount. Students must still meet the minimum requirements to enroll in the Data Science Program.