

Data Analysis bootcamp: build 5 projects  
\*\*\*No programming experience required\*\*\*

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Data Analysis Bootcamp NYC by Joshi  
Python Coding/Programming & Complete Data Analysis Classes NYC

Shivgan Joshi

12/31/2019

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## **Time: 36 hours**

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## *Weblinks*

<http://learnprogrammingnyc.com/>

<http://qcfinanceconsultingnyc.site/>

## Summary

Over the past decade, the explosion of data has transformed nearly every industry known to man. Whether it's healthcare, finance, government, marketing, engineering, or activism - the ability to translate data into "actionable insights" has quickly become a highly in-demand skill by all. This data analysis boot camp will enable you to gain the knowledge and skills to conduct robust analytics on a host of real-world problems. The program is rigorous, fast-paced, and focused on the practical technical skills needed to solve data problems. Throughout the course, you will gain proficiencies in numerous marketable technologies, Python, JavaScript, SQL Databases, Tableau (optional), and more. Plus, you will leave with an impressive professional portfolio and the confidence to succeed in the data-driven economy.

## About this event

You will start Python from scratch by first going through fundamentals and creating simple programs. Then you will be guided on how to create 5 data driven applications in Python.

This course is divided into 4 sections.

## More details about the event

### CURRICULUM

#### Unit 1: Python Coding Fundamentals

- Data Types and Data Structures
- Iterations, Functions, Classes, and Objects
- List Comprehension
- Regular Expression
- Python Packages: Pandas, NumPy, Matplotlib, Seaborn
- Projects

#### Unit 2: SQL and Web Scraping

- Querying Columns and Filtering Rows, SQL basics
- Aggregate Functions and Sorting Data

- Joining Tables for Extracting Additional Data and Data Cleaning
- Web Programming Fundamentals: HTML, CSS, JavaScript
- Python Packages: BeautifulSoup, Scrapy
- Projects

### **Unit 3: Foundation of Machine Learning**

- Linear Algebra: Vector, Matrix, Eigenvalues, and Eigenvectors
- Linear Regression and extensions
- Logistic regression
- Time Series Modeling
- Regularization and Model Validation
- Projects

### **Unit 4: Visualizations**

- Python Packages: Matplotlib, Seaborn
- Data visualization toolkits, D3.js
- Dashboard design (optional)
- Projects

## **What to expect:**

Engage in hands-on, project-based learning that's designed to inspire a lifetime of discovery.

As a Data analysis student, you'll:

- Explore new concepts and tools through expert-led lectures and discussions.
- Complete coding exercises to reinforce newly learned skills.
- Learn how to troubleshoot Python code.
- Build Python programs for data driven applications, interactive visualizations, and dashboards.
- Dive deeper into topics and techniques via programming exercises.
- Receive feedback and support from your instructional team.
- Apply what you've learned to build custom applications.

# Instructor's Bio Data

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## Shivgan Joshi

Shivgan Joshi is an executive trainer and talent acquisition consultant at QcFinance and has worked in the field of data science across disciplines. Previously, Joshi served as data science manager for BaiNYC and co-founder of QcFinance. At QcFinance, Joshi developed Python, R, SQL, MatLab, VBA, and BAT courses focused on all aspects of finance, including trading and modeling of quantitative portfolios.

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<https://github.com/shivgan3>

## Reference

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