

# CypherCreed's

## Learning Path

### Introduction to Data Analysis using Python

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## Motivation:

- Watch this! - [A Day in the Life of a Data Analyst!](#)
- [Data Analysis, A Complete Roadmap for Learning Data Science](#) - Rebecca Vickery (on Medium)
- [Towards a Data-driven Organization](#) - A Roadmap for Data Analytics
- Read the [Articles on Data Analysis](#) on **Medium!**
- [Average Data Analyst's Salary!](#)

Join the **Official Community** of **Data Analysis** (and other related topics) on **Quora>>**

- ❖ [Data Analysis](#)
- ❖ [Data Analysts](#)

## Learning Path

>>> The overall consequent learning roadmap of Data Science is driven by the following Domains!

[Note: Asterisk ("\*") marked courses are mandatory and arranged in progressive order!]

[Note: All the contents in this Learning Roadmap are well arranged in moderate & progressive order!]

### 01. Fundamentals

#### 1. Python Programming >>>

- 1.1. [Complete Python Bootcamp: Go from zero to hero in Python 3](#) - Jose Portilla
- 1.2. [The Python Mega Course: Build 10 Real World Applications](#) - Ardit Sulce
- 1.3. [Automate the Boring Stuff with Python Programming](#) - Al Sweigart

#### 2. Python Data Structures >>>

- 2.1. [Python for Data Structures, Algorithms, and Interviews!](#) - Jose Portilla

#### 3. Learn Database Management Systems (DBMS) >>>

- 3.1. [In-depth theoretical concepts](#) - NPTEL (IIT KGP)

#### 4. Learn SQL >>> (Choose any one)

- 4.1. [SQL for Newbs: Data Analysis for Beginners](#) - David Kim, Peter Sefton (**buy this course or wait for the torrent link!**)
- 4.2. [The Complete SQL Bootcamp](#) - Jose Portilla

#### 5. Learn Probability >>>

- 5.1. [Probability - The Science of Uncertainty and Data](#) - MIT (edX)

#### 6. Learn Statistics (choose anyone!) >>>

- 6.1. [Statistics for Data Science and Business Analysis](#) - 365 Careers Team
- 6.2. [Statistics for Business Analytics and Data Science A-Z™](#) - SuperDataScience Team

## 02. Core

- ★ [Data Analysis with Pandas and Python](#) - Boris Paskhaver
- ★ [Udacity Data Analyst Nanodegree!](#) - (download for free!) (**Highly Recommended for in-depth knowledge and path for future projects**)
  - [Syllabus](#) of this Nanodegree!

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## >>> All-in-One Data Science Courses!

Coursera Specializations (*can choose anyone!*) (*apply for financial aid for each course in a specialization*) >>>

- ❑ [Data Analysis and Interpretation Specialization](#) - Wesleyan University

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## Other Resources:

**Books:** Existing in this modern digital world of unbound opportunities & resources, do you really need a HardCopy of a few pages (which considerably won't update w.r.t to time)?

Think twice! Learn Digitally!

***But if you still wanna read some books, then here it is! >>>***

→ [OReilly Python for Data Analysis - 1st Edition](#) - William McKinney

## Happy Learning!

