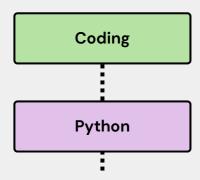
# **Data Science Roadmap for Beginners**

This roadmap features a collection of complimentary learning resources tailored for both technical (tool skills) and soft (core) skills, ensuring an accessible and diverse learning experience.

This roadmap is created by Kashif Aziz.

Github: **(7)** azizkashif49 Kaggle: hunzaikashif49 LinkedIn: **(in)** azizkashif49

Email: hunzaikashif@gmail.com

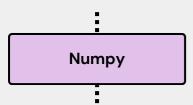


## **Learning Resources:**

Google's Python Class: https://developers.google.com/edu/python

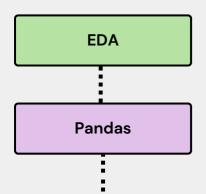
Kaggle's Python Course: https://www.kaggle.com/learn/python

Codebasic's Python Tutorials: https://bit.ly/3X6CCC7



#### **Learning Resources:**

Numpy Tutorials: https://bit.ly/3GTppa8



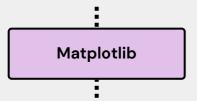
## Learning Resources:

Pandas Tutorials: https://bit.ly/3vPJWpX

**Exploratory Data Analysis Pandas** https://www.coursera.org/learn/ibm-exploratory-data-analysis-for-machine-learning

#### **Exploratory Data Analysis for Machine Learning:**

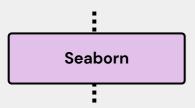
https://www.coursera.org/learn/ibm-exploratory-data-analysis-for-machine-learning



## **Learning Resources:**

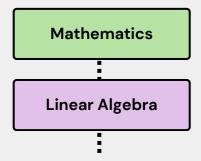
Matplotlib Tutorials: https://bit.ly/3k55egu

**Data Visualization with Python:** https://www.coursera.org/learn/python-for-data-visualization



## **Exploratory Data Analysis with Seaborn:**

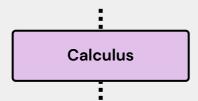
https://www.coursera.org/projects/exploratory-data-analysis-seaborn



#### **Learning Resources:**

**Linear Algebra for Machine Learning and Data Science:** 

https://www.coursera.org/learn/linear-algebra-machine-learning



#### **Learning Resources:**

Multivariate Calculus for Machine Learning and Data Science:

https://www.coursera.org/learn/multivariate-calculus-machine-learning



## **Learning Resources:**

**Probability and Statistics for Machine Learning and Data Science:** 

https://www.coursera.org/learn/machine-learning-probability-and-statistics

Tutorials: https://www.khanacademy.org/math/statistics-probability



#### **Learning Resources:**

**Machine Learning Specialization:** 

https://www.coursera.org/specializations/machine-learning-introduction

**IBM Machine Learning Specialization:** 

https://www.coursera.org/specializations/machine-learning-introduction

Tutorials: https://bit.ly/3io5qqX



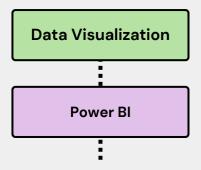
#### **Learning Resources:**

SQL Tutorials: https://sqltutorial.org/

Khan Academy: https://www.khanacademy.org/computing/computer-

programming/sql

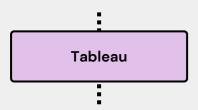
W3School Tutorials: https://www.w3schools.com/sql/



**Learning Resources:** 

Projects: https://bit.ly/3C1WKgA

**Microsoft Power BI:** https://www.coursera.org/professional-certificates/microsoft-power-bi-data-analyst



## **Learning Resources:**

**Data Visualization with Tableau:** https://www.coursera.org/specializations/data-visualization

Projects: http://bit.ly/3YQSBFV



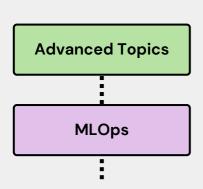
#### **Learning Resources:**

**Deep Learning Specialization:** https://www.coursera.org/specializations/deep-learning

IBM AI Engineering: https://www.coursera.org/professional-certificates/ai-engineer

**Deep Learning Tutorials:** https://bit.ly/3vOZ3zV

Project: https://bit.ly/3QzkVJi



## **Learning Resources:**

Machine Learning Engineering for Production (MLOps) Specialization:

https://www.coursera.org/specializations/machine-learning-engineering-for-production-mlops

