

Python Basics

- Introduction
- Creating Virtual Environment and Using Jupyter Notebook
- Modules and Packages: Using and Creating
- Basic Data Types
- Data Structures
 - Lists
 - Tuples
 - Dictionaries
 - Set
- Looping Statements
- List and Dictionary Comprehensions
- Functions
- File Handling

Python Intermediate

- Command Line Arguments
- Object-Oriented Programming (OOP) with Python
 - Overview of Object-oriented programming
 - Objects, Instances and classes
- Regular Expressions
- Lambda functions

Python Data Analysis Stack and Visualization

- NumPy Arrays and methods
- Plotting using Matplotlib and Seaborn
- Pandas and methods
- Downloading Public Dataset using Rest API (Yahoo)
- Introduction to Google Colab
- Introduction to Scikit (Python Machine Learning Stack)

Python Advance

- Decorators & Generators
- Introduction to Github
- Introduction to Flask – Micro-web Framework
- Web Scraping
- Memory profiling

If time permits -

- Overview of Data Science and AI
- Google Cloud and its 300\$ Credits