

Week 1

<p>Day 1: Getting Started with Python (Setup + Introduction to Python)</p> <p>Setting up a Python development environment with Anaconda and learning the basics of Jupyter Notebook for interactive programming. Introduction to the Python language for machine learning.</p>	<p>Anaconda Installation (Blog)</p> <p>Windows</p> <p>Mac OS</p> <p>All OS</p>	<p>Jupyter Tutorial (Video)</p> <p>Jupyter Notebook tutorial</p>	<p>Python Tutorial (Video)</p> <p>Python Tutorial</p> <p>Till 1:55:50 (Till Lists)</p> <p>Till 3:44:37 (Optional)</p> <p>Pop up:</p> <p>Chapters to skip:</p> <p>00:11:24 How Long It Takes To Learn Python</p> <p>01:16:17 Weight Converter Program</p> <p>01:24:07 Building a Guessing Game</p> <p>01:30:51 Building the Car Game</p>
<p>Data Structures in Python</p> <p>Covers the basic data structures required to get started with machine learning.</p>	<p>Python Data Structures -I Lists, Sets, Tuples (Blog)</p> <p>Blog</p>	<p>Python Data Structures -II Dictionaries (Blog)</p> <p>Blog</p>	<p>Data Structures Practice (Notebook)</p> <p>Notebook Link</p>
<p>Numpy</p> <p>Introduction to Numpy, the scientific computing library of Python. This will help you in doing heavy mathematical calculations</p>	<p>Numpy Tutorial (Video)</p> <p>Numpy Video</p>	<p>Numpy Tutorial (Blog)</p> <p>Numpy Tutorial Blog</p>	<p>Numpy Practice (Notebook)</p> <p>Practice Notebook</p> <p>Kaggle Solutions</p> <p>Kaggle Notebook</p>
<p>Pandas</p> <p>Introduces pandas, a Python package built on Numpy which is most commonly used to handle tabular data and provides several tools that</p>	<p>Pandas Tutorial (Video)</p> <p>Pandas Video</p>	<p>Pandas Tutorial (Notebook)</p> <p>Pandas Notebook Tutorial</p> <p>Pop up:</p> <p>Skip Question no. 22,23</p>	<p>Pandas Micro Course</p> <p>Pandas Kaggle Micro Course</p>

simplify working with the data.			
<p>Data Visualization using Matplotlib</p> <p>Data Visualization helps us understand the information's meaning by giving it visual context through different graphs or maps.</p>	<p>Data Visualization and Introduction to Matplotlib Tutorial</p> <p>Matplotlib Data for Visualization</p> <p>Pop up: By Dr. Neeraj Sharma from DSAI, IITG Ignore 1.2 Plotting for Analysis</p>	<p>Matplotlib Tutorial (Detailed Blog) Matplotlib Blog</p>	<p>Matplotlib Tutorial (Notebook) Matplotlib Notebook Tutorial</p>
<p>Bonus Section : Covers Object Oriented Programming and tools to visualize data through charts and heatmaps.</p>	<p>Python OOPs Python OOPs Till 03:19:32</p>	<p>Linear Algebra with Numpy Linalg</p>	<p>Data Visualization using Seaborn and Plotly (Video) Seaborn Plotly</p>

Numpy Assignment:

<https://drive.google.com/drive/folders/1nVVtohkT9ioemtXaP0KaDt4070nms0Uh?usp=sharing>

Pandas Assignment:

https://drive.google.com/drive/folders/1SteBMmCwoopOwhHkfV4gzrlzc_VYzF-e?usp=sharing

Quiz: Will be Live on 24th May