Week 1 Material Description

This material has been provided for basic knowledge of Python, Statistics, and an introduction to all the basics you need to get started with Python for Data Science. Let's get started !

(**Reading Material for statistics and probability :)**

Read about Distributions : https://towardsdatascience.com/all-probability-distributions-explained-in-six-minutes-fe57b1d49600

2) https://statisticsbyjim.com/basics/probability-distributions/

Data Types in Statistics : https://towardsdatascience.com/data-types-in-statistics-347e152e8bee

Video Material for statistics and probability :

Statistics and Probability Tutorial : https://www.youtube.com/watch?v=XcLO4f1i4Yo (1.5hrs)

Short videos topic-wise

Mode, Median, Mean, Range, and SD https://www.youtube.com/watch?v=mk8tOD0t8M0 (7min)

Quantiles and Percentiles : https://youtu.be/IFKQLDmRK0Y

Introduction to Random Variables : https://youtu.be/IYdiKeQ9xEI

Discrete and Continuous variables : https://youtu.be/dOr0NKyD31Q

Probability Density Functions : https://youtu.be/Fvi9A_tEmXQ

Expected Values, Main Ideas : https://youtu.be/KLs_7b7SKi4

Sampling Distributions : https://youtu.be/z0Ry_3_qhDw

Central Limit Theorem: https://youtu.be/JNm3M9cqWyc

The Normal Distribution : https://youtu.be/rzFX5NWojp0

Video Material for python basics

Python for Beginners : https://www.youtube.com/watch?v=_uQrJ0TkZlc (Watch up to 1hrs 15 min)

Video Material   :

introduction to all the basics you need to get started with Python for Data Science :

Out of the most popular Python packages used in data science and machine learning , we find **Numpy, Pandas** and **Matplotlib.**

NumPy Tutorial : https://www.youtube.com/watch?v=QUT1VHiLmmI

Pandas Tutorial : https://www.youtube.com/watch?v=vmEHCJofslg   from 17:35

Matplotlib Tutorial: https://www.youtube.com/watch?v=yZTBMMdPOww&t=11s