Week 1: Mentoring session – Intro to Machine Learning and Python

**Learning Objectives of the session:**

* Know what is Machine Learning and its importance in today’s world
* Understand What is Python and why is it an important part for career in ML
* Learn about basic commands and datatypes of Python
* Know about Important libraries in Python
* Basic functions of Numpy and Pandas
* Perform Basic exploration of data using Python

**Structure of the Session**

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| **Time Distribution of 2 hours** | **Topic** | **Detail** |
| First 15 Min | * Introduction (Only in case of first session) * Explaining the session structure | * Introducing yourself to the students and making them introduce themselves * Understanding their backgrounds and setting the expectations of the sessions * Explaining the agenda and learning objectives of the session |
| 45 min | * Walk through the video lectures of that week | * Making mentees understand the concept of with a brief on Machine Learning landscape, Python and its importance * Explaining the Python basics, functions and application of Numpy and Pandas |
| 30 min | * Case Study | * Uber Analysis |
| 10 min | * Industry Example | * Giving few industry applications of Python and Basic Statistics and how it is used in different domains to align concepts with Industry Practice |
| 20 min | * Doubt Clearing | * Doubt clearing / discussions with participants and summarizing the session |