**Week 1 Resources & Tasks :**

**Read online about data analytics and business analytics :**

Introduction to Data Analytics resources:

https://www.geeksforgeeks.org/what-is-data-analysis/

https://www.youtube.com/watch?v=mm2A5tKVIpg

https://www.youtube.com/watch?v=1QH7iukKZgg

Notes: You can read more in detail about data mining, ML, deep learning, BI BA if time permits.

**Get affluent in python** :

https://www.tutorialspoint.com/python3/ (read full of the basic tutorial, this or any similar python tutorial online)

https://www.geeksforgeeks.org/libraries-in-python/#:~:text=A%20Python%20library%20is%2 0a,and%20again%20for%20different%20programs.

https://www.kaggle.com/code/chats351/introduction-to-numpy-pandas-and-matplotlib/notebo ok

Notes:

1. For now focus on understanding **basic syntax, data structures, and libraries (mainly numpy, panda, matplotlib)** thoroughly.

2. We will use google collab as our ide so no setting up of environment is required. Keep practicing python as you learn it on google collab.

**Tasks :**

**1. Write a code to print the transpose of a given 4\*4 matrix and then reshape it to some 2\*8 matrix.**

**2. Plot any 3 different types of graphs using matplotlib**

**3. Come up with any one example of how data analytics can be used for the betterment of IITK.**