

## Assignment – II

Maximum Marks: 10

1. Each student is required to do a thorough Exploratory Data Analysis (EDA) in Python for the data provided against their roll number.

Odd Roll Number	Data 1
Even Roll Number	Data 2

2. **The student must provide a full report on the EDA along with codes.**
3.
  - In MS word report classification/regression prediction results should be clearly mentioned along with the chart of EDA.
  - Further all the codes should be pasted in word file.
  - Finally, the word file should be converted into pdf file and submit to MS-TEAM.
  - **File name which needs to be uploaded must have file name: 20BCP013\_Hardik\_Inani\_AssignmentII (Example)**
4. After EDA, you must apply the ML Model as per detail mentioned below (**against their roll number**):

<b>Odd Roll Number</b>	Data 1
<b>Even Roll Number</b>	Data 2

5. During the training of a machine learning (ML) model, conduct the essential processes, such as data transformation and encoding.
6. Compare the results of regression algorithms using the appropriate parameters and charts, and write a full report with accompanying codes.
7. Only one report comprising the results of both the EDA and the ML/DL model should be submitted.
8. **Clearly mention your roll number, name, branch and assignment name as Assignment 1 before submission.**

**Note: - It is expected to utilize deep learning models or any other novel ML/DL models which are developed in last three years (2019 onwards)**

Data is attached with assignment in MS Team. Further students are encouraged to tune hyperparameters using newly developed optimization algorithms and prediction results of training, testing and tenfold cross validation should be submitted.