Task Details:

1. Find out a dataset with having at least 5 features (x_1, x_2,x_3,x_4,x_5,…) (Hint: Google, Kaggle, UCI machine repository, openML for dataset search.
2. Do all data preprocessing steps:
    a. Identify the data type of each feature i.e., qualitative, quantitative, etc.
    b. Find missing values if any. Use the techniques discussed in class like replace with average etc.
    c. Find inconsistent and duplicate observations if any and apply techniques to handle the inconsistency and redundant data.
    d. Check if the data is skewed or normal.
    e. If there are any outliers, remove them by applying different techniques discussed in class.
    f. Normalize your dataset by applying different techniques like max-min, z-score etc.
    g. Handle noise by applying data smoothing techniques.
3. After data preprocessing, apply the appropriate learning algorithm.
4. Prepare maximum one and half page analysis report, that contains:
    a. The dataset that you are using, and the source for it. Dimensions of the dataset, and the specific dimensions that you plan to use.
    b. All details of data preprocessing you have performed and visualization of it.
    c. Name of the appropriate learning algorithm you've chosen along with brief comment on why you have selected it.
    d. Mention results in visual form and comment on the performance of learning algorithm by applying accurate performance measures.
5. Note that: This is an indivisual task, and if any two datasets/ results/ analysis are same, it will lead to zero credit.
6. **Submission date**: Nov 6, 2022 till 11:59 pm.
7. **Deadline is hard** and any late submission wouldn't be accepted.