**Lab Manual for**

**Machine Learning**

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Description automatically generated

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Carefully read the following instructions

1. Save .ipynb file with your roll no and name e.g. i21XXXX\_XYZ.ipynb
2. At the end, when you are done with your lab tasks, make your submission on Google Classroom.

**Tasks**

1. Data Matrix: Extract and display the data matrix containing only the feature values (excluding the target labels).

2. Attributes: List all the feature names (attributes) present in the Iris dataset.

3. Mean and Total Variance: Calculate the mean of each feature and the total variance across all features.

4. Correlation Matrix: Compute and display the correlation matrix of the centered data matrix.

5. Covariance Matrix: Compute and display the covariance matrix of the centered data matrix.

**Happy Coding ☺**