**Deep Learning Lab**

List of lab experiments for Phase1

1. Implementation of different activation functions to train Neural Network.
2. Implementation of different Learning Rules.
3. Implementation of Perceptron Networks
4. Pattern matching using different rules.

List of lab experiments for Phase 2

1. Develop a program for Bias, Variance, Remove duplicates, Cross Validation.
2. Exploratory Data Analysis for Classification using Pandas or Matplotlib.
3. Build an Artificial Neural Network by implementing the Back-propagation algorithm and test the same using appropriate data sets.
4. Multilayer Perceptron and Hyper-parameter Tuning

PCA1

Aim: Project related to application of deep learning in business analysis.

Procedure:

1) Identifying and understanding the market.

2) Collection of previous existing data sets and analyzes it.

3) Use machine learning techniques for prediction and for development.

Examples:

1) Stock market.

2) Market prediction.

PCA2

Write a program to predict a caption for a sample image using CNN.