

## PL505 Machine Learning Lab

**Prerequisites:** PL 306

**Lab Contents:**

### **Suggested Lab assignments :**

1. Program to implement perceptron for OR gate.
2. Program to implement candidate elimination algorithm(version space)
3. Program to implement decision tree.
4. Program to implement back propagation neural network.
5. Program to implement linear regression model for a given data.
6. Program to implement logistic regression model for a given data.
7. Program to extract features using Principle component analysis.
8. Program to implement Hopfield neural network.
9. Program to implement Self-organising map(SOM)

### **Machine learning project suggestions:-**

1. Prediction of stock market prize.
2. Predicting Impact of aerosol on climate change.
3. Signature verification .
4. Google search optimization.
5. Semantic analysis of text.