Lab Exercise 1

Design perceptron for AND, OR, NAND & NOR gate.

https://www.enjoyalgorithms.com/blog/design-perceptron-to-learn-and-or-xor-gates

Lab Exercise 2

Logistic regression: Implement single layer perceptron for glass classification.

Link for dataset https://www.kaggle.com/datasets/uciml/glass

https://medium.com/analytics-vidhya/logistic-regression-using-single-layer-perceptron-neural-network-slpnn-31757c792d5d

Lab Exercise 3

Linear regression: Implement multiple linear regression using perceptron.

Link for dataset: https://www.kaggle.com/datasets/hussainnasirkhan/multiple-linear-regression-dataset

Lab Exercise 4

Multilayer perceptron: Implement backpropagation. Predict the age of abalone from physical measurements.

Dataset link https://archive.ics.uci.edu/dataset/1/abalone