Laboratory Experiments LPV

Sr. No.	Name of Experiments	Dataset	Source
1	Design and implement Parallel Breadth-First Search and Depth First Search based on existing algorithms using OpenMP. Use a Tree or an undirected graph for BFS and DFS .		
2	Write a program to implement Parallel Bubble Sort and Merge sort using OpenMP. Use existing algorithms and measure the performance of sequential and parallel algorithms.		
3	Implement Min, Max, Sum and Average operations using Parallel Reduction.		
4	Write a CUDA Program for : 1. Addition of two large vectors 2. Matrix Multiplication using CUDA C		
6	Linear regression by using Deep Neural network: Implement Boston housing price prediction problem by Linear regression using Deep Neural network. Use Boston House price prediction dataset	Boston	Kaggle
7	Classification using Deep neural Binary classification using Deep Neural Networks Example: Classify movie reviews into positive" reviews and "negative" reviews, just based on the text content of the reviews. Use IMDB dataset	IMDB	Kaggle
8	Convolutional neural network (CNN) Use MNIST Fashion Dataset and create a classifier to classify fashion clothing into categories.	MNIST Fashion	Kaggle
9	Recurrent neural network (RNN) Use the Google stock prices dataset and design a time seriesanalysis and prediction system using RNN.	Google stock prices dataset	Kaggle