
Project Status Report

Project Topic:

Recurrent Neural Networks (RNN) for time series prediction: Stock Market Analysis of TESLA

Team Members:

Name	NetId
Akshay Kunnamkalath Mohanakrishnan	Axk190189
Pratik Deepak Naik	Pxn210006
Preema Merlin Dsouza	Pmd200001
Puru Jaiswal	Pxj2000018

Technique/Algorithm you plan to implement:

LSTM: Long Short-Term Memory networks – type of RNN which are used in learning long-term dependencies and sequence prediction problem.

This technique is widely used in speech recognition, machine translation, time series analysis etc.

Dataset details, such as number of features, instances, data distribution

Dataset link: <https://www.kaggle.com/datasets/whenamancodes/tesla-inc-stock-market-analysis-founding-years>

Stock Market Analysis of TESLA Inc from its Founding / Listing Years which is 2010 to 2022. The dataset has 7 features and 3077 instances. The datatypes are float, int and objects.

Coding language / technique to be used:

Python 3