Annexure-I
Project Summary

Registration No: 322201297   Name of student: MD. TARIQUE ANWER

Title of Capstone Project / Project Work:

Real-Time Stock Analysis and Prediction using Python and Yahoo finance.

Objectives of the Project:

1. To fetch and analyse real-time Stock market data using YFinance API
2. To create interactive visualization of Stock trends using Plotly.
3. To implement machine learning models for accurate price prediction.
4. To assist users making informed investment decision based on analysis

Results and Findings:

The project successfully implemented real-time Stock data analysis and prediction using Python and moving Yahoo Finance API. Interactive visualization with Plotly, including candlestick and moving average charts. The linear regression model predicted stock price accurately.

Specific outcomes of the Project:

The project successfully retrieved stock data from Yahoo Finance API and visualized it using Plotly for better insights. A linear regression model was used to predict stock price with reasonable accuracy and given recommendation to BUY or HOLD the stock.

Learnings from the Project:

The project enhanced my skills and in real-time stock data retrieval, analysis, and visualization using Python and plotly. It also deepend my understanding of implementing predictive models.

Any Challenges/issues faced during the Project:

A major challenge faced during the project was retrieving data via web scrapping, as it worked intermittently - sometimes successfully other times failing due to site structure change or connection issue

Signature of the Student: