

## Machine Learning Term Project Group 4

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Deeksha Akkati	Dev Girishbhai Mewada	Hemanth Sai Kosari	Jai Prathik Reddy Soda	👤

### Responsibilities:

#### 1. DEEKSHA AKKATI: Data Engineering and Feature Design

- Collecting and preprocessing historical stock data for NVDA and NVDQ.
- Integrating additional datasets like S&P500 trends or US Consumer Confidence while ensuring data quality and alignment.

#### 2. DEV MEWADA: Machine Learning Model Development

- Building and optimizing predictive models for stock prices (highest, lowest, and average closing prices).
- Implementing and evaluating time series models (e.g., Arima, Transformer and LSTM).
- Training and validating the trading strategy classification model.

#### 3. HEMANTH: Web Interface

- Develop a responsive web app for Smart Trader using STREAMLIT.
- Integrating the ML models with the app, enabling real-time predictions.

#### 4. JAI PRATHIK: Testing and Documentation

- Performing back testing of predictions and trading strategies to evaluate performance metrics for different scenarios and analyze model accuracy.
- Documenting the entire process, including model design, quality analysis, successes, failures, following the instructions for the report and README file.