**PROJECT TOPIC: Stock Price Prediction using LSTM and News Sentiment Analysis**

**B.Tech. CSE Group No. : 37**

**Project Group Members:**

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**Project Supervisor:** Dr. Swati Srivastava, Assistant Professor

**About the Project:** The aim of the project is to predict the price of the stocks or at least the stock movement for a given day using historic data and recent news. The stock data will be used to train a LSTM model which will help to recognise a pattern in stock movement and thus predict prices using this pattern. On other side, a sudden change in stock movement cannot be easily detected by this pattern. So, news sentiment analysis will be used to predict the movement using some recent related news. Using the prediction from both models, a final prediction will be done which will give the stock movement.

**Motivation:** Stock market attracts investors but also affected by a lot of factors which makes it difficult to predict. But by knowing the trend of the market and including other factors that can affect it, one is able to predict how it will behave in coming future. It’s a classic problem and still in the research.

**Project Planning:**

**Tools required:**

* **Hardware Requirements:**

Processor:Intel i5 RAM:4GB

Operating System:Windows 7 or above

Hard disk:256GB

* **Software Requirements:**

Google colab

VS Code

**Signature of Project Supervisor: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**