

Department of Computer Engineering

Mini Project Abstract

Group no: 4

Team Members:

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- **Title:** "TradeTavern: ML-Driven Market Predictions"
- **Abstract:** TradeTavern is a web application that leverages the power of React, MongoDB, and Long Short-Term Memory (LSTM) algorithms to provide advanced stock prediction capabilities. The application features a dynamic, interactive front-end built with React, allowing users to seamlessly visualize stock data and predictions. MongoDB serves as the robust backend database, efficiently managing large datasets of historical stock prices. At the core of TradeTavern's predictive power is the LSTM algorithm, renowned for its ability to capture temporal dependencies and accurately forecast stock trends. Users can interact with intuitive charts, manage watchlists, and receive personalized insights. Designed for scalability and efficiency, TradeTavern ensures real-time performance and reliable predictions, empowering users to make informed investment decisions.