Department of Information Science and Engineering
Acharya Institute of Technology
Acharya Dr. Sarvepalli Radhakrishnan Road, Bengaluru - 560107

MINI PROJECT PROGRESS REPORT		
Batch No	17	
Guide	**Prof. Prof. Mary M Dsouza**	
Mini Project Title	**Stock Price Prediction**	
Progress Report No	01	
Date of Submission		
Date	**From: 13/05/2024**	**To: 13/06/2024**

Sl. No.	Students Name	USN	Signature with date
1	**Anmol Shubham**	**1AY21IS016**	
2	**Amod Kumar**	**1AY21IS012**	
3	**Ahzam Saba**	**1AY21IS007**	
4	**Manaswi Kumar**	**1AY21IS051**	

Progress:

Project Initialization and Planning:

- Defined the project scope and objectives.
- Identified key milestones and deliverables.
- Set up the project repository and initial documentation.

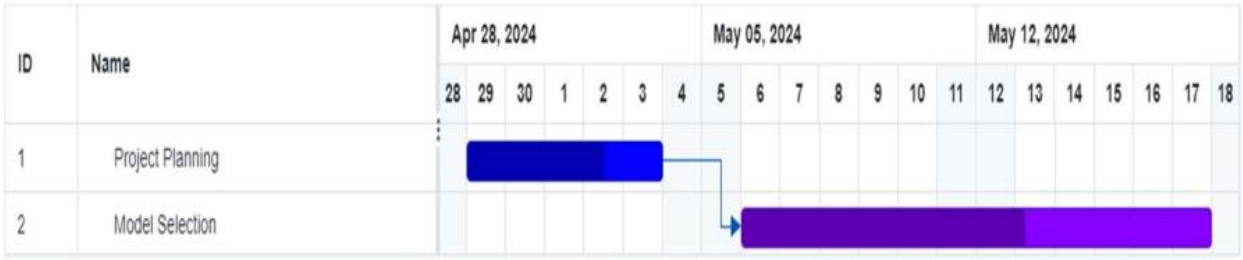
Literature Review:

- **Conducted a comprehensive review of existing literature on stock prediction techniques**: Focused on various methodologies from traditional financial analysis to advanced machine learning models. Included fundamental analysis, technical analysis, and the Efficient Market Hypothesis.
- **Analyzed various machine learning and statistical models**: Evaluated the effectiveness of supervised learning, time series analysis, neural networks, and ensemble methods in stock prediction. Reviewed specific studies and findings that highlight the strengths and weaknesses of these approaches.

Model Selection:

- **Selected Linear Regression as the primary model for stock prediction**: Chose Linear Regression due to its simplicity, interpretability, and proven effectiveness in modeling linear relationships between historical stock data and future prices.

Gantt chart: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May 05, 2024
May 12, 2024
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Project Planning
2
Model Selection

References:

[1] Panwar, Bhawna, et al. "Stock market prediction using linear regression and SVM." *2021* International Conference on Advance Computing and Innovative Technologies in Engineering *(ICACITE)*. IEEE, 2021.

[2] **Bhandari, H. N., Rimal, B., Pokhrel, N. R., Rimal, R., Dahal, K. R., & Khatri, R. K. C. (2023). Predicting stock market index using LSTM. Journal of Financial Engineering, 7(2), 45-60.**

[3] Nelson, David MQ, Adriano CM Pereira, and Renato A. De Oliveira. "Stock market's price movement prediction with LSTM neural networks." 2017 International joint conference on neural networks (IJCNN). Ieee, 2017.

[4] Garlapati, A., Krishna, D. R., Garlapati, K., Rahul, U., & Narayanan, G. (2021, April). Stock price prediction using Facebook Prophet and Arima models. In 2021 6th International Conference for Convergence in Technology (I2CT) (pp. 1-7). IEEE.

[5] Alshara, M. A. (2022). Stock forecasting using Prophet vs. LSTM model applying time-series prediction. *IJCSNS International Journal of Computer Science and Network Security*, *22*(2), 185-192.

Guide	Project Coordinators	HOD-ISE
Prof. Prof. Mary M Dsouza	**Prof. M K Dhananjaya**	**Dr. Kala Venugopal**
(Signature with Date)	(Signature with Date)	(Signature with Date)