

DATA PREPARATION AND ANALYSIS (CSP-571)

TOPIC: STOCK MARKET ANALYSIS DEPLOYING MACHINE LEARNING PIPELINES

1. PROJECT GROUP

- **GROUP MEMBERS:**

NEHA KIRAN NAYAK (A20583245)

ANUSHA VENKATESH (A20594323)

SHANIKA KADIDAL SUNDRESH (A20585446)

- **GROUP LEADER:**

NEHA KIRAN NAYAK (A20583245)

2. PROJECT TOPIC:

- Application Subject area: FINANCE
Topic: Stock market analysis deploying machine learning pipelines
- Specific dataset and sources: (Kaggle)
<https://www.kaggle.com/datasets/farhanali097/nvidia-nvda-stock-data-1999-to-december-2024>
- Reference resources:
 1. Chlebus, M., Dyczko, M., & Woźniak, M. (2021). Nvidia's stock returns prediction using machine learning techniques for time series forecasting problem. Central European Economic Journal, 8(55).
 2. Pradip, G., Bari, C., & Nandhini, J. S. (2018). Stock market prediction using machine learning. International Journal for Advance Research and Development, 3(10), 29-32.
 3. Idrees, S. M., Alam, M. A., & Agarwal, P. (2019). A prediction approach for stock market volatility based on time series data. IEEE Access, 7, 17287-17298.

4. Gupta, S., Nachappa, S., & Paramanandham, N. (2025). Stock market time series forecasting using comparative machine learning algorithms. *Procedia Computer Science*, 252, 893-904.
 5. Yadav, A., Jha, C. K., & Sharan, A. (2020). Optimizing LSTM for time series prediction in Indian stock market. *Procedia Computer Science*, 167, 2091-2100.
- Supplemental resources: MetaStock, Morningstar Inc, MarketWatch and other softwares for stock monitoring