

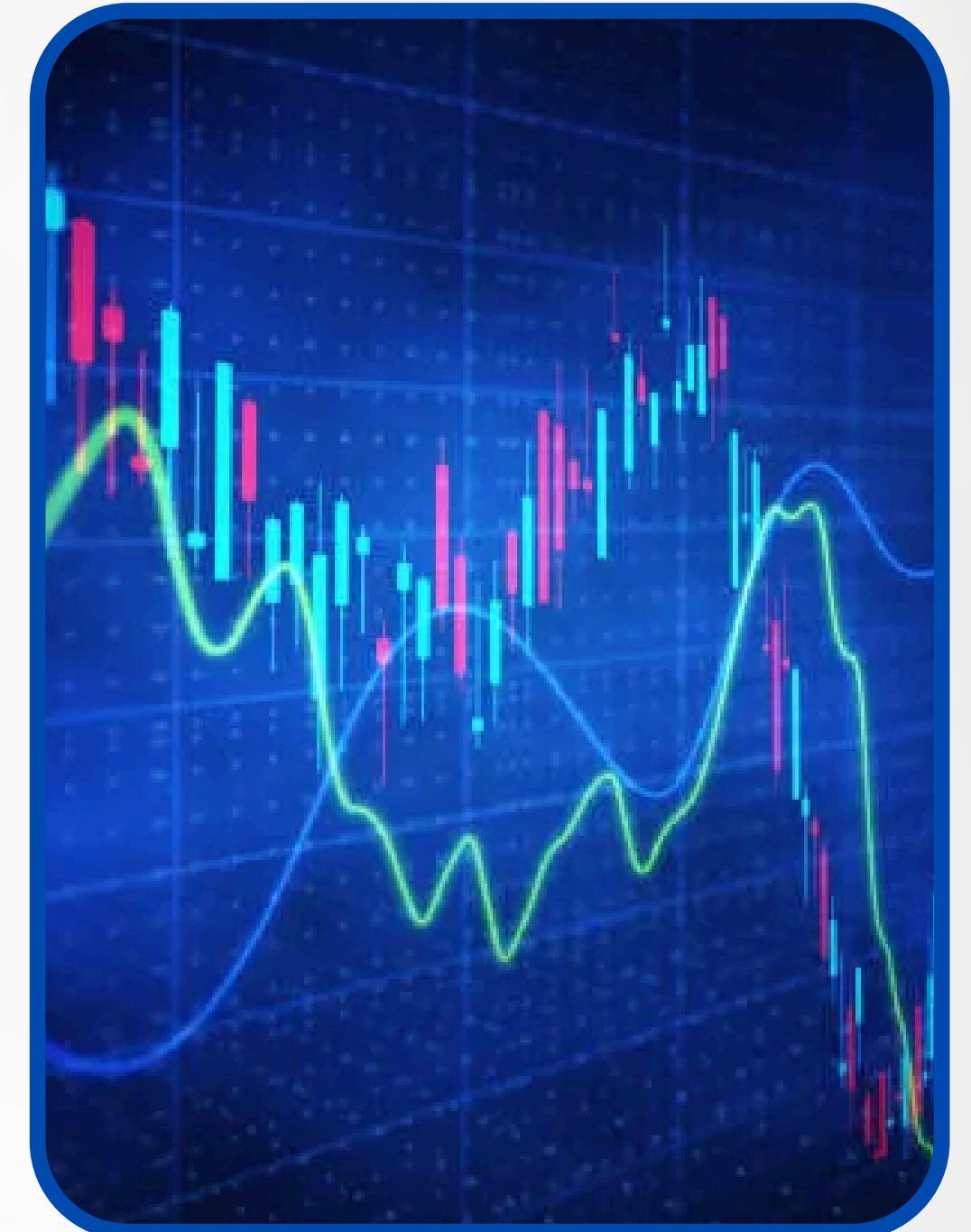


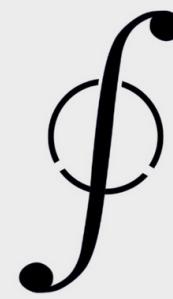
Presented by
Team FEINANCE



INTRODUCTION

We present a financial application to allow people to perform simulated trading and educate themselves in the field of stock trading.





A Complete & Safe Learning Environment using mock currency

Useful tools like AI-Powered Stock Predictions and Behavioral Analytics

A Gamified Learning Centre, with quality lectures and quizzes to maximize learning

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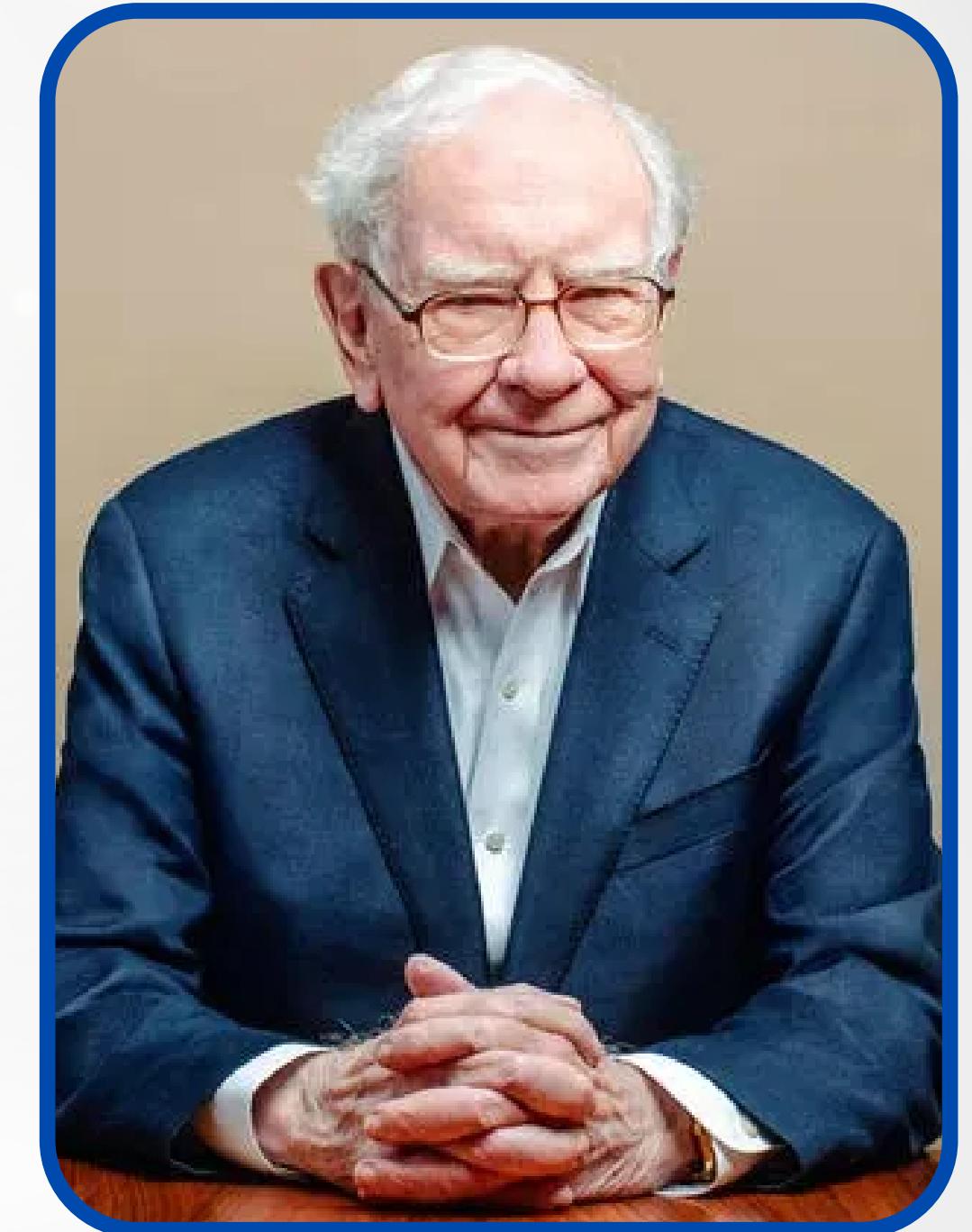
NEED FOR THIS SOFTWARE



POTENTIAL USERS

Traders or People interested in Trading.

Anyone who wishes to try their hand at trading and learn the art of trading can benefit from this Software.



MAJOR REQUIREMENTS

All Stocks				
Reliance Industries Limited	RELIANCE	₹ 1240.1	<input checked="" type="checkbox"/>	
HDFC Bank Limited	HDFCBANK	₹ 1864.9	<input checked="" type="checkbox"/>	
Tata Consultancy Services Limited	TCS	₹ 3248.2	<input checked="" type="checkbox"/>	
Bharti Airtel Limited	BHARTIARTL	₹ 1798.8	<input checked="" type="checkbox"/>	
ICICI Bank Limited	ICICIBANK	₹ 1350.2	<input checked="" type="checkbox"/>	
State Bank of India	SBIN	₹ 763.5	<input checked="" type="checkbox"/>	
Infosys Limited	INFY	₹ 1426	<input checked="" type="checkbox"/>	

AI Powered Stock Predictions				
Last Pricing Date: Tue Apr 15 2025 Predicted Date: Wed Apr 16 2025				
LAST CLOSING PRICE (₹)	PREDICTED OPENING (₹)	PREDICTED CLOSING (₹)	VOLATILITY	MARKET SENTIMENT
₹229.20	₹544.60	₹57.64	4.18	Bullish
₹359.83	₹176.68	₹329.25	4.29	Bearish
₹464.03	₹388.31	₹74.99	5.41	Bullish
₹207.17	₹444.77	₹539.51	2.18	Neutral
₹536.11	₹167.65	₹249.14	4.18	Bearish
₹404.36	₹342.91	₹223.80	1.09	Neutral
₹411.79	₹461.07	₹424.21	5.90	Bearish
₹221.75	₹535.66	₹338.90	3.87	Bullish
₹372.89	₹487.48	₹319.83	5.94	Bearish

The Finance app interface includes a logo, a sidebar menu with options like Dashboard, Profile, Buy And Sell Stocks, AI Powered Predictions, Portfolio Management, Behavioural Analytics, Risk Management, Learning Centre, and Support, and a main content area for Portfolio Management showing current value (₹12,401) and transaction history for RELIANCE.

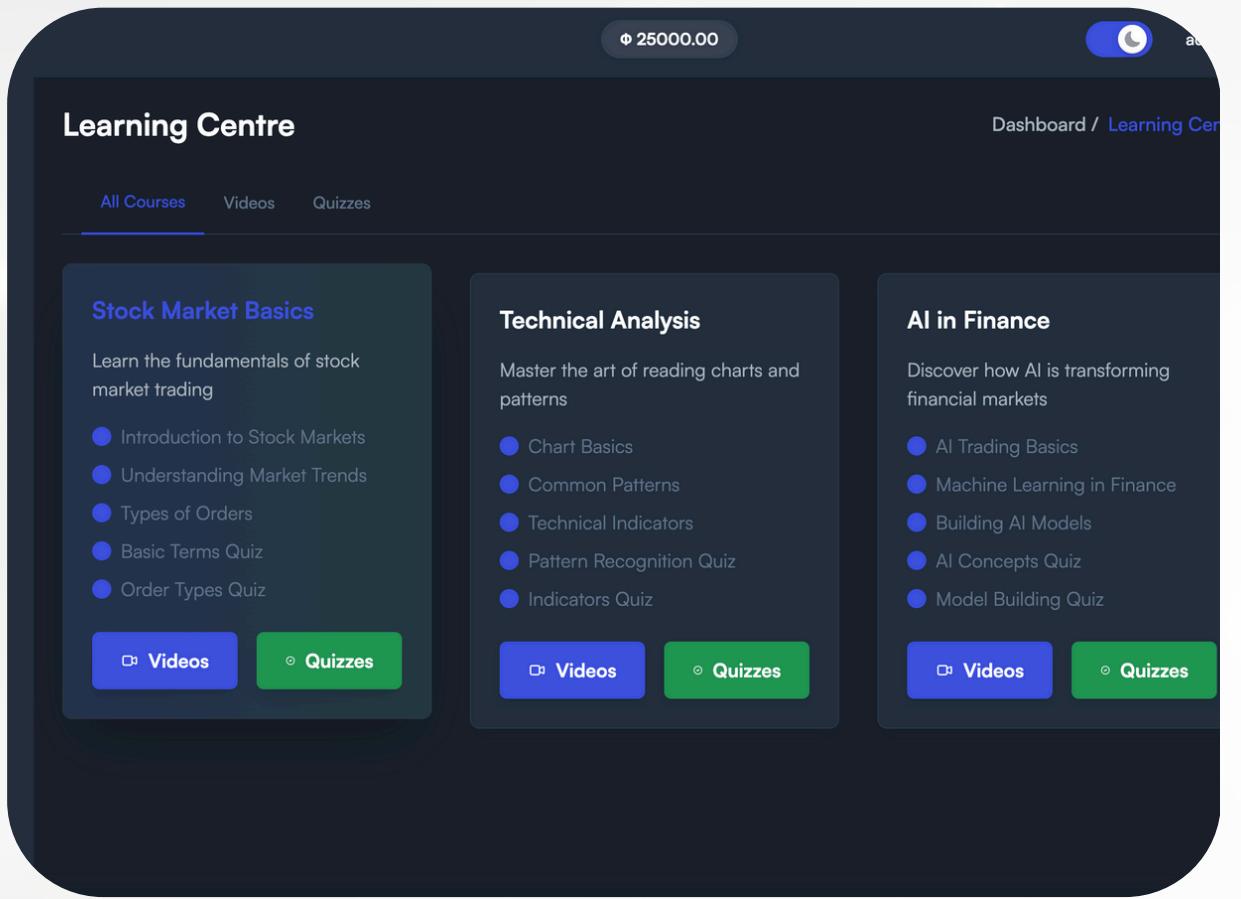
Dashboard: displays 50 stocks from NSE with their live price along with option to add to watchlist

Portfolio Management: current holdings along with history of transactions and returns with stock wise data

Behavioural Analytics: displays graphs and pie charts to provide information of transactions and returns

AI Powered Predictions: gives suggestions and opening/closing prices of the next day

MAJOR REQUIREMENTS



Contact Us
Have a question?
Email: support@phinance.com
Phone: 9654321011

Frequently Asked Questions (FAQs)

- 1. What is this platform?**
This platform offers a simulated trading environment where you can trade stocks using virtual funds. It provides real-time data, technical analysis tools, AI-powered predictions, and educational resources to help you learn and practice.
- 2. How do I start trading?**
Simply sign up for an account, and you'll receive ₹25,000 in virtual funds. From there, you can trade stocks just as you would in a real trading platform.
- 3. Can I trade real stocks on this platform?**
No, this platform is focused on providing a simulated trading experience. While the stock prices and data are real, all transactions are made using virtual money.
- 4. How is the stock data sourced?**
Our platform pulls real-time or near-real-time stock data from reliable financial data providers. This includes information like stock prices, market trends, and company financials.
- 5. How does the AI-powered prediction feature work?**
At the end of each trading day, we run machine learning models on the stocks you've traded. These models analyze historical data and current market conditions to predict the stock's potential price movement based on technical indicators. The model then predicts the stock's potential price movement.

Management

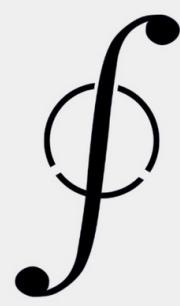
Portfolio Risk Analysis

TICKER	AVG PRICE	QUANTITY	1-DAY VAR
HDFCBANK	₹1864.90	2	61.50
HINDUNILVR	₹2361.50	1	38.00

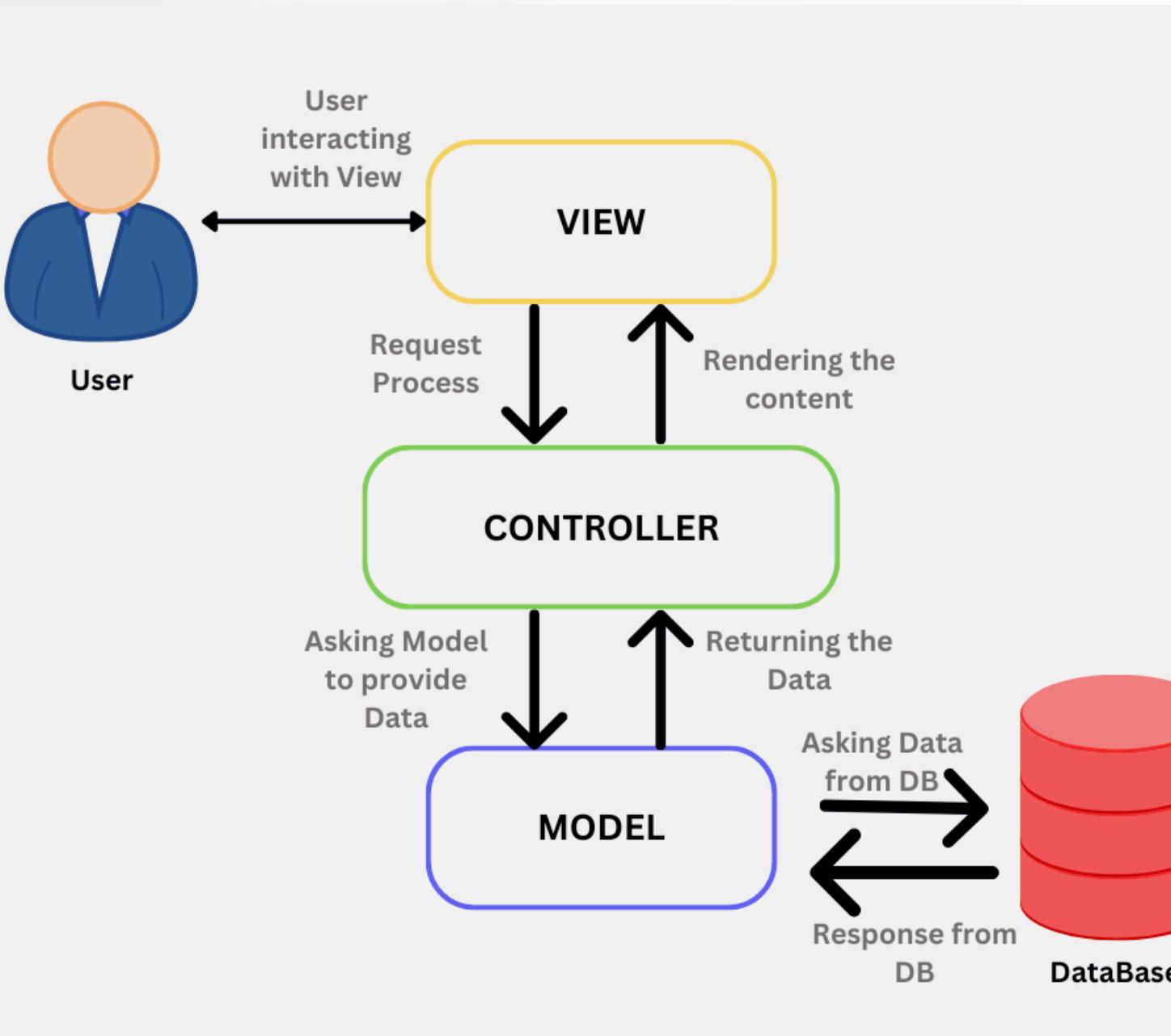
Risk Management: helps the user monitor and evaluate the risk associated with the stocks in their portfolio using the Value at Risk (VaR) metric.

Learning Centre: explore educational resources related to financial markets and trading. The platform rewards users with coins for watching videos and completing quizzes

Support: option from the navigation panel on the left, the user can view the Frequently Asked Questions (FAQs) and Contact Us section



DESIGN AND IMPLEMENTATION



1

Model View Architecture

- Multiple Views - Same Data

2

Object-Oriented Design

- Nested Classes
- Data Encapsulation
- Concurrency
- Polymorphism

3

Page wise views and controller

- Easy Integration

A Complete & Safe Learning Environment using mock currency



Frontend

- React
- TypeScript
- Vite
- TailwindCSS
- Axios
- Chart.js
- React Router



Backend

- Go
- Gin
- PostgreSQL
- JWT
- GORM

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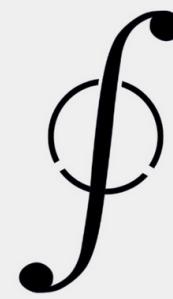
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TECH STACK USED



DEMO

[Website Link](#)



Integrating payment systems to enable trading with real money, for users who want to test their skills in the real world.

Expansion of the Learning Centre to consist homegrown user-tailored learning material and suggestions to maximize learning.

Improving on the latency, performance and other metrics that are part of the website, like confidence metric, etc.

Adding the ability to trade real or mock stocks in different stock exchanges. (The current version displays only NSE stocks)

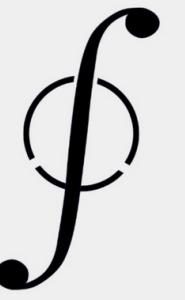
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FUTURE DEVELOPMENTS



LESSONS LEARNT

1

Team Collaboration and
Work Division

2

Technical Skills

3

Plan Driven Process



THANK YOU

OUR TEAM

**AADI
SINGH**

**AADYA
DIR**

**ARUZ
AWASTHI**

**ANISH
SAHU**

**SAMEER
YADAV**

**ANIRUDDH
KUMAR**

**PRANSHU
THIRANI**

**SANGAM
GUPTA**

**DILBAR SINGH
LAMBA**

**ANISHA
SRIVASTAVA**