



Stock Price Prediction Project

HARNESSING DATA TO OPTIMIZE INVESTMENTS

Introduction

- ▶ **Project Objective:** Forecasting stock prices for informed investment decisions.
- ▶ **Importance:** Explain why this project is valuable for investors.

Project Phases

- ▶ Data Collection
- ▶ Data Preprocessing
- ▶ Feature Engineering
- ▶ Model Selection
- ▶ Model Training
- ▶ Model Evaluation

Data Collection

- ▶ **Data sources:** Where and how you gathered historical market data.
- ▶ **Data types:** Mention the types of data collected (e.g., stock prices, volume, news sentiment).

Data Preprocessing

- ▶ **Data Cleaning:** Describe steps to handle missing or erroneous data.
- ▶ **Data Transformation:** Explain any data normalization or scaling performed.

Feature Engineering

- ▶ **Feature Selection:** Discuss which features were chosen and why.
- ▶ **Feature Creation:** Highlight any novel features you engineered.

Model Selection

- ▶ **Algorithms:** Mention the machine learning algorithms considered.
- ▶ **Justification:** Explain why you chose specific algorithms over others.

Model Training

- ▶ **Data Splitting:** Explain how you divided the data into training and testing sets.
- ▶ **Training Process:** Describe how the models were trained.

Model Evaluation

- ▶ **Metrics:** Present evaluation metrics (e.g., RMSE, MAE, accuracy).
- ▶ **Visualizations:** Include charts or graphs to showcase model performance.

Results

- ▶ Present the results of your stock price prediction model.
- ▶ Highlight successful predictions and any challenges faced.

Future Enhancements

- ▶ Discuss potential improvements or extensions to the project.
- ▶ Mention additional data sources or advanced techniques.

Conclusion

- ▶ Summarize key takeaways from the project.
- ▶ Reiterate the value of the predictive model for investors.