



STOCK TIME- SERIES ANALYSIS

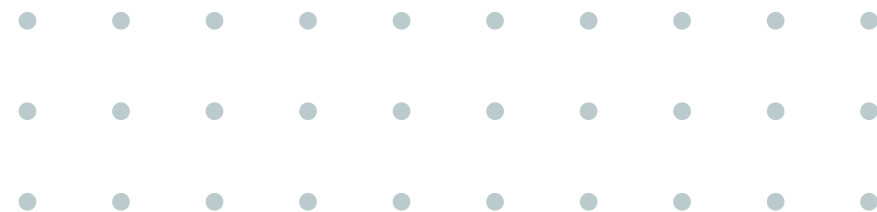
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01. BUSINESS PROBLEM

02. DATA OVERVIEW

03. ANALYSIS & MODEL

04. RECOMMENDATIONS

05. FUTURE RESEARCH



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BOTTOMLINE



Upward Trend

LSTM Model



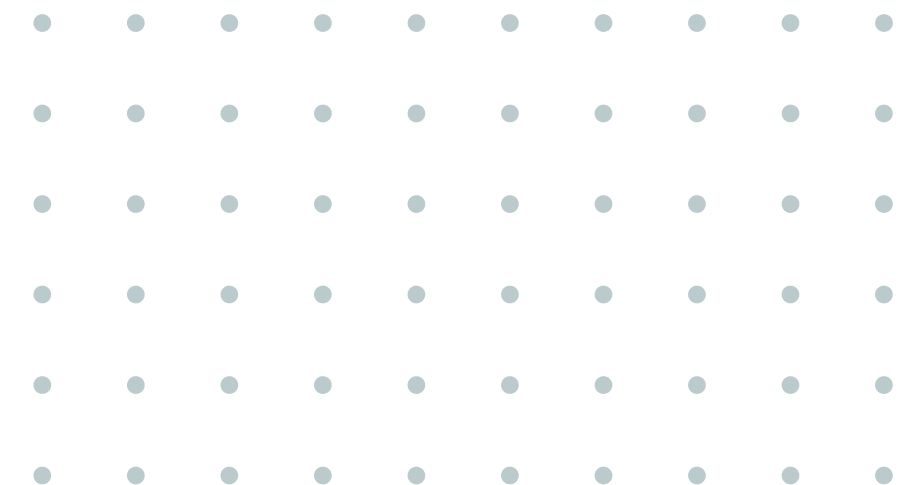
01.

BUSINESS PROBLEM



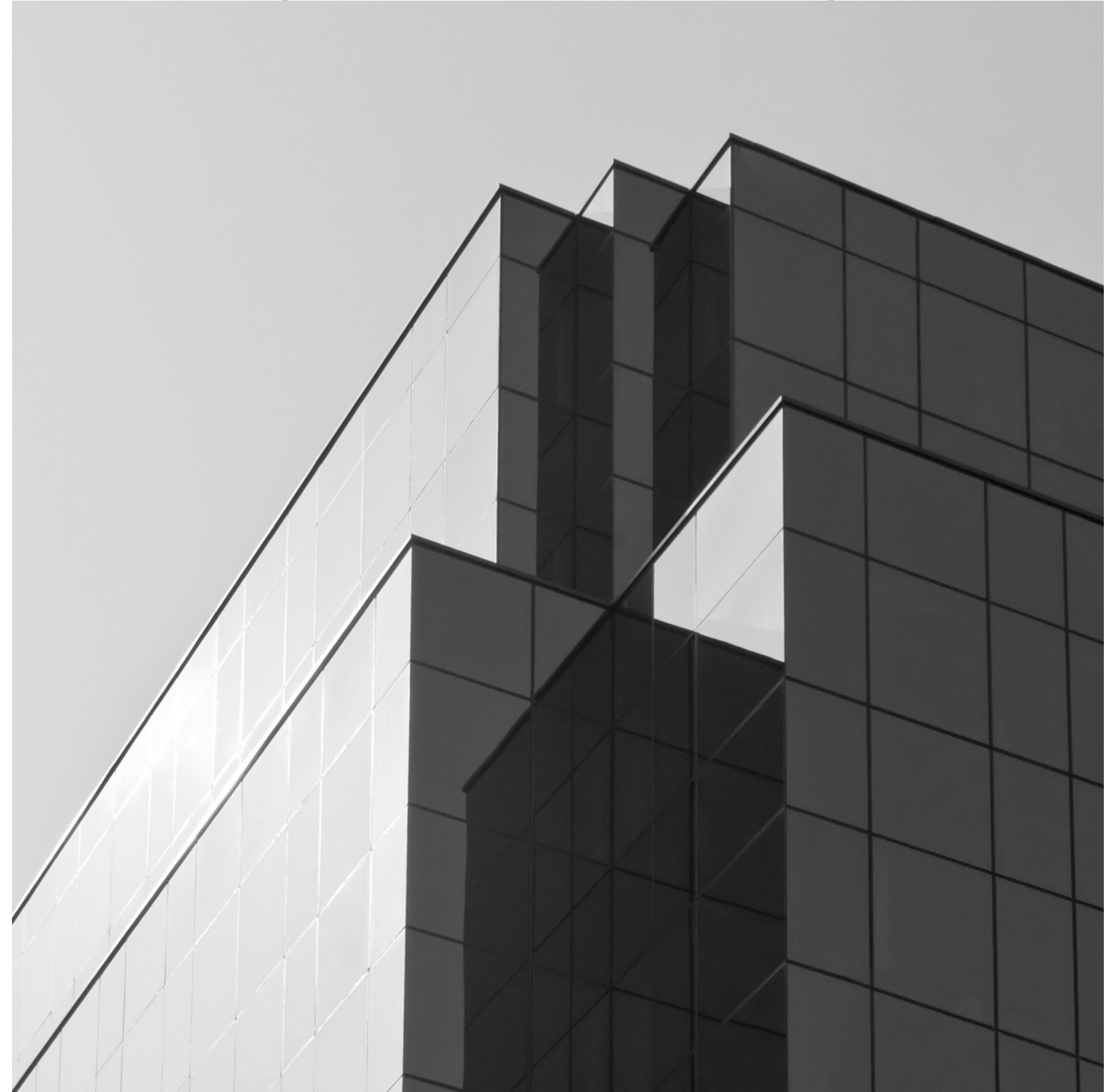
PROBLEM

- Long-Term Investment: Where to start
- Reliable Model Forecasting



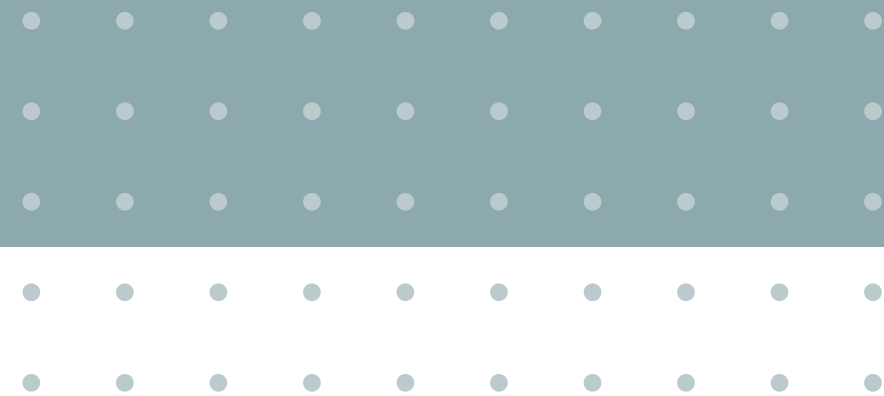
MICROSOFT

- PC Software systems and applications
- Founded in 1975
- 37 year Stock history



02.

DATA OVERVIEW

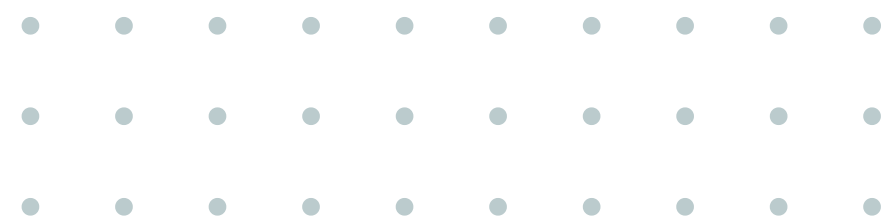


MSFT Stock Historical Data

- Yahoo! Finance.
- 9524 Observations.
- Closing Stock Price.

Data Limitations

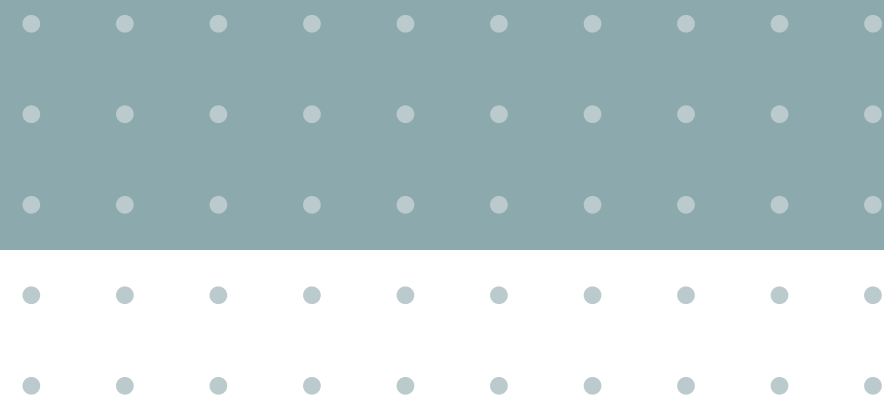
- No Weekend Observations.



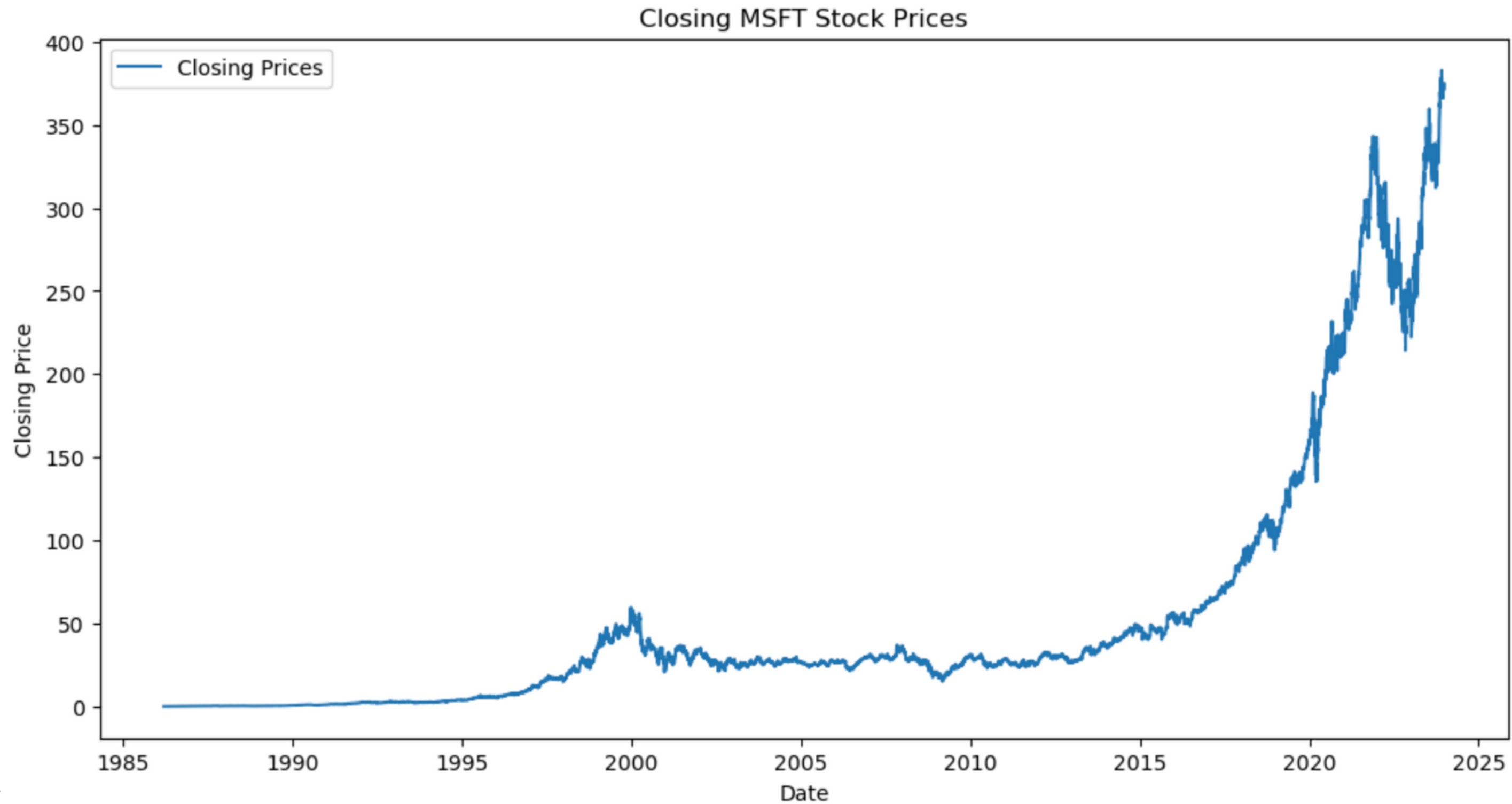
03.

ANALYSIS & MODEL

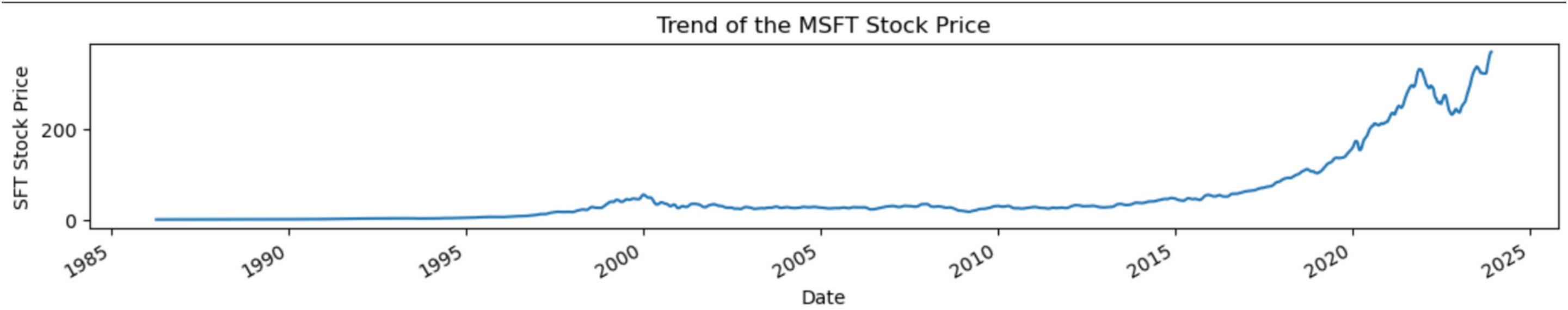
Liceria & Co.



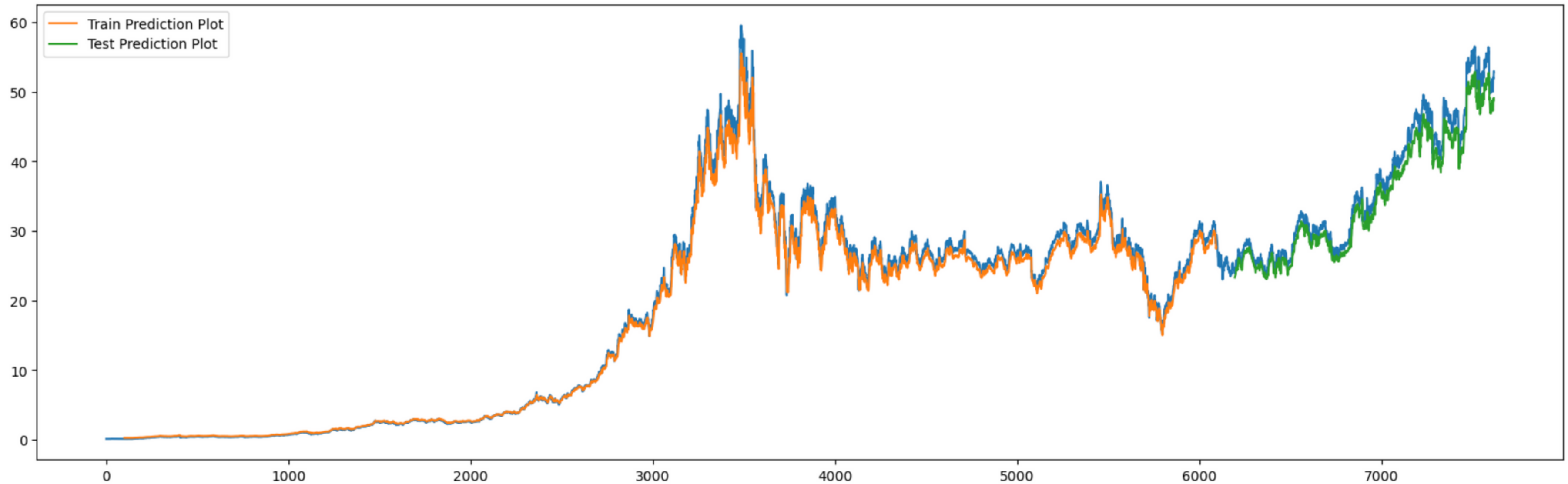
HIGHEST MSFT STOCK PRICE EVER



UPWARD TREND IN THE PAST 9 YEARS



LSTM NEURAL NETWORK FORECASTING



04.

RECOMMENDATIONS



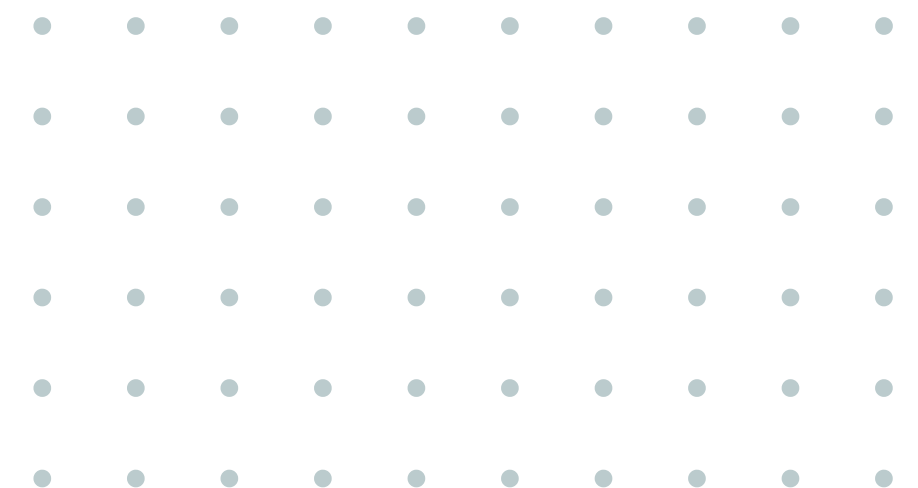


SOLUTION

- Upward Trend
- LSTM Forecasting

PROBLEM

- Long-Term Investment:
Where to start
- Reliable Model
Forecasting



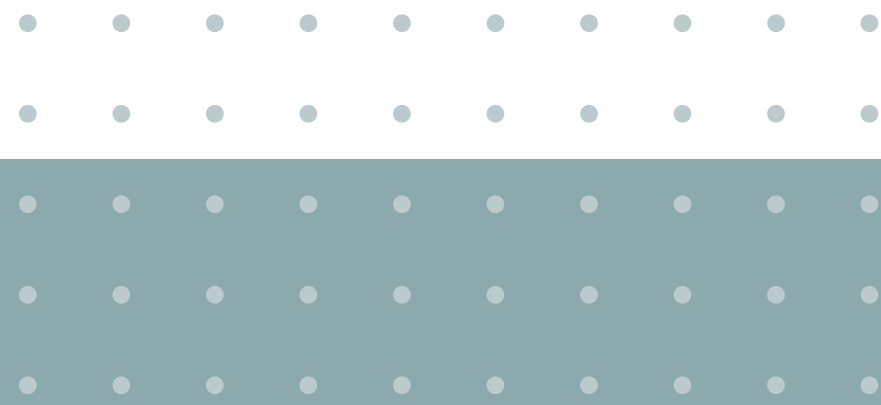
05.

FUTURE RESEARCH

EXTERNAL
FACTORS

REAL-TIME
FORECASTING

ENHANCE
MODEL
ROBUSTNESS



THANK YOU

Have any question?

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APPENDIX

