

# ***AI Trading Platform***

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# *What are we trying to achieve?*

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*Our platform utilizes various advanced predictive **machine learning models** that give **recommendations** on trades for a variety of **stocks**. We aim to simulate a **trading environment** with our predictions to portray how our models are working any given day. Through this **platform**, we hope to help the average investor make more **informed decisions**.*

# ***Deliverables***

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## ***Required***

*Long Short-Term Memory (LSTM)*

*XGBoost*

*Natural Language Processing*

*Reinforcement Learning (RL)*

*Convenient User Interface*



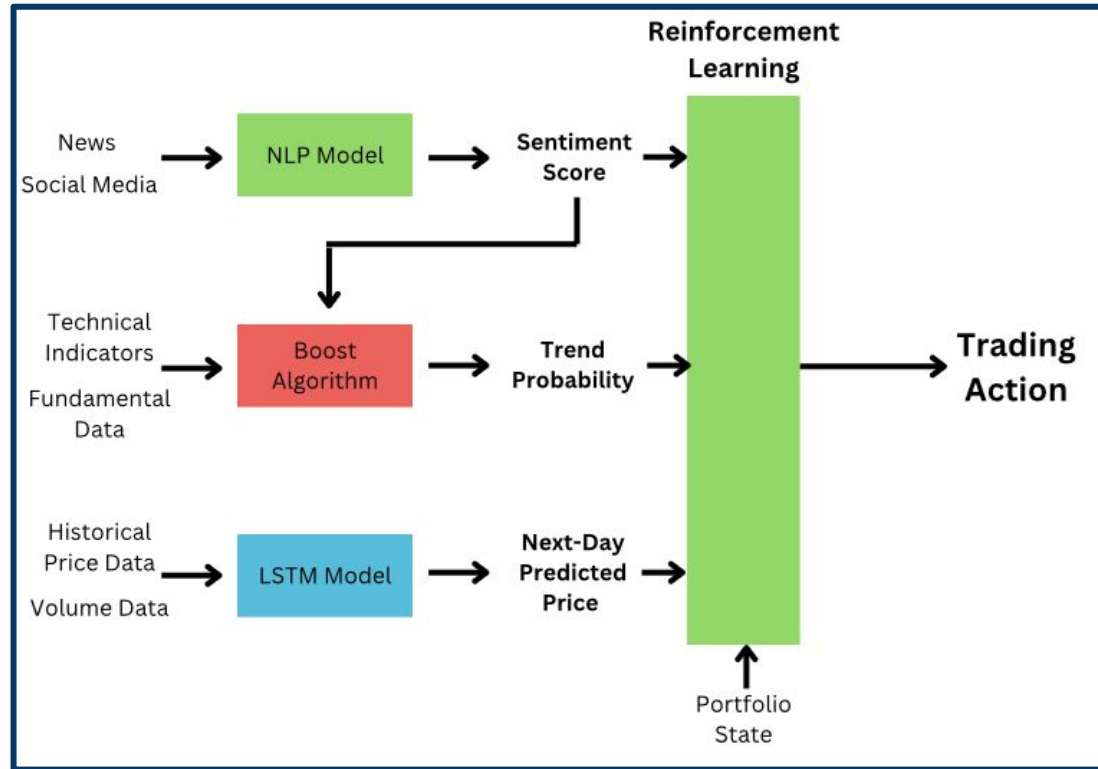
*Algorithmic Platform Providing  
Trading Recommendations*

## ***Optional***

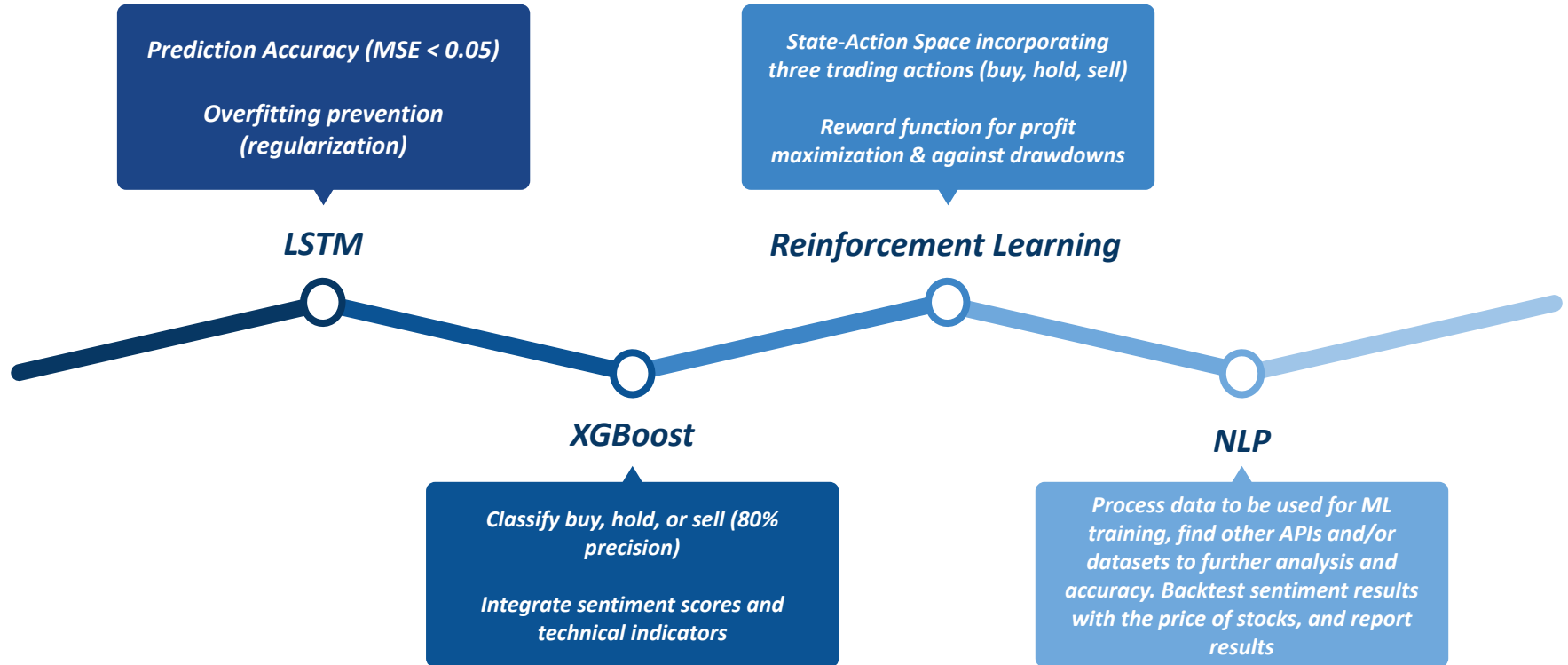
*Trading Strategy Options*

*Market & Economic Updates*

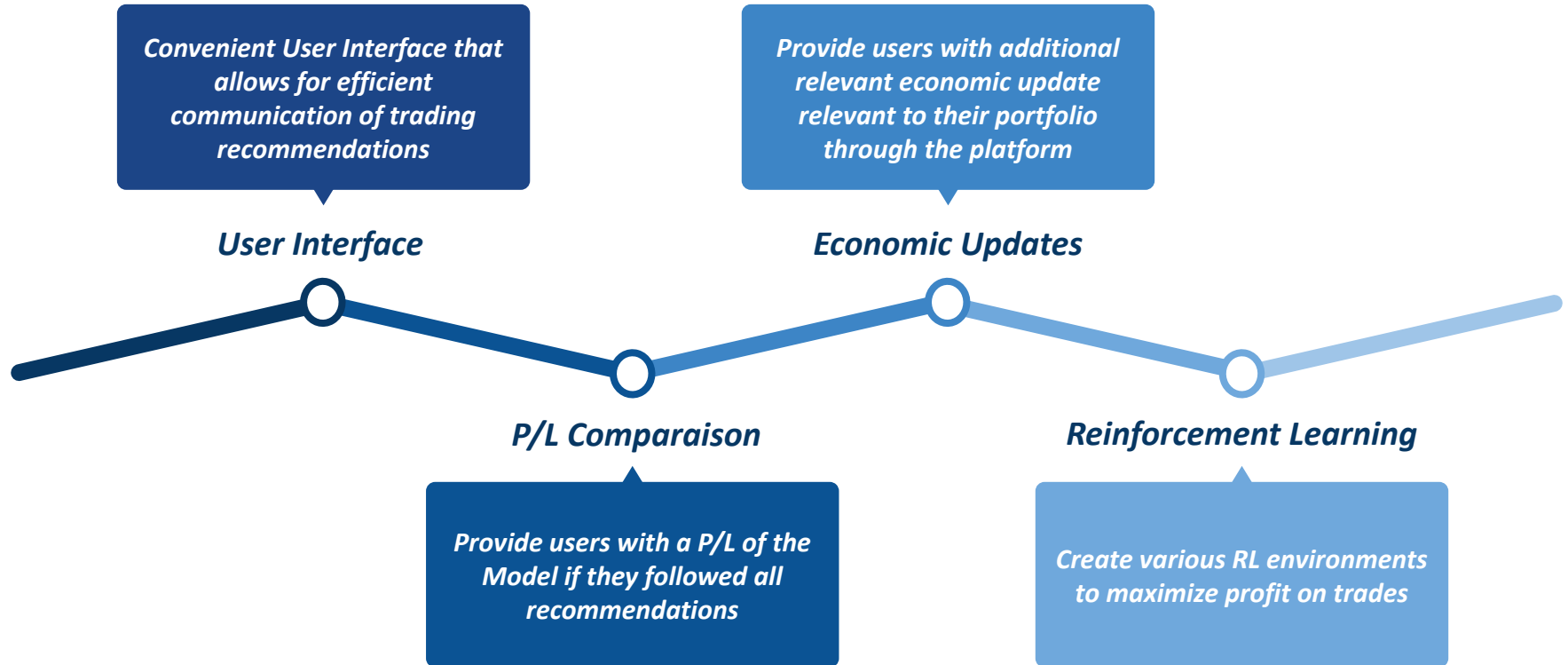
# Model Architecture



# Requirements Fulfilled

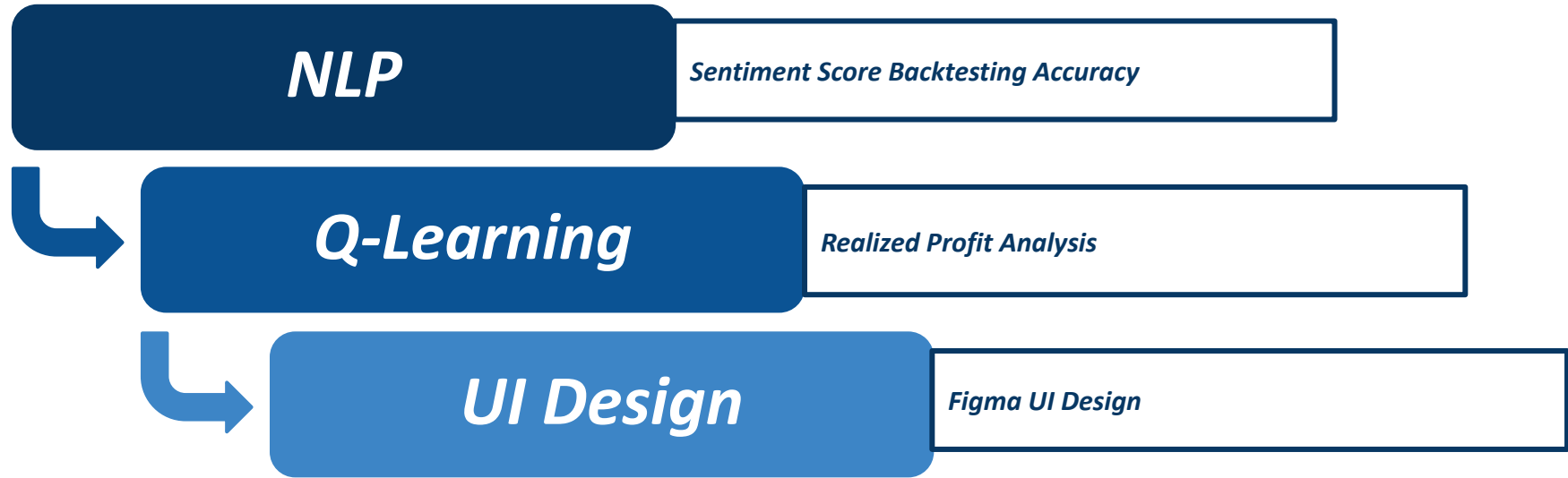


# ***Deliverables Left***



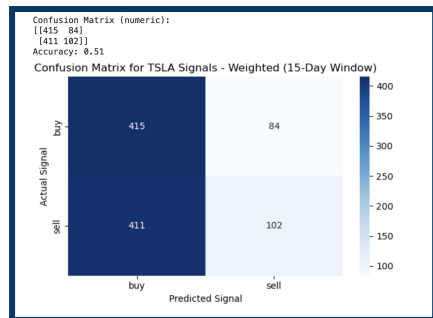
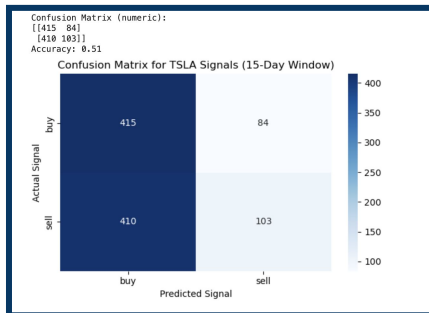
# Prototype

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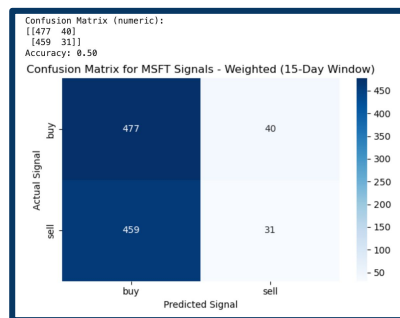
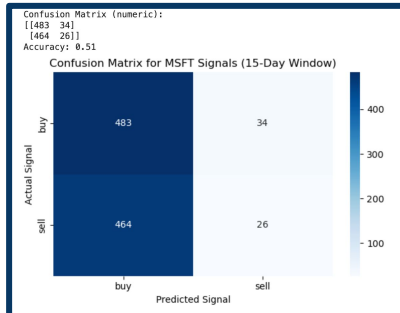


# NLP Results: 50% Accuracy

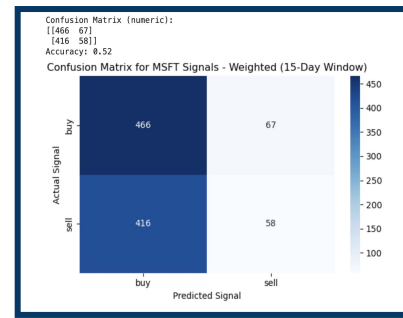
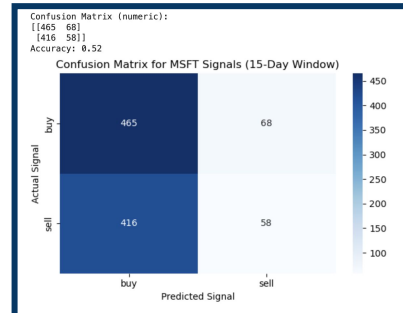
## Tesla



## Coca Cola



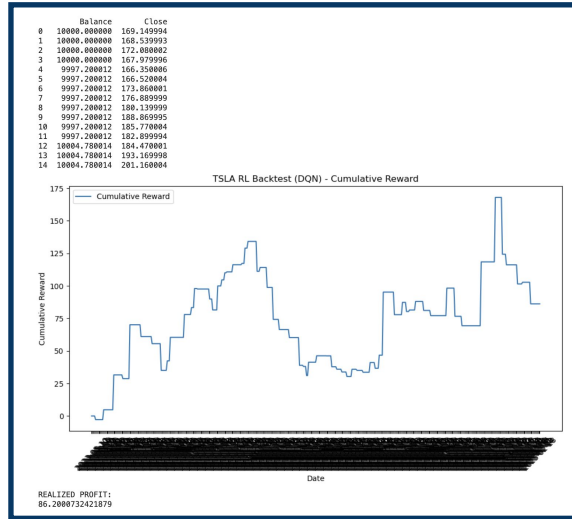
## Microsoft





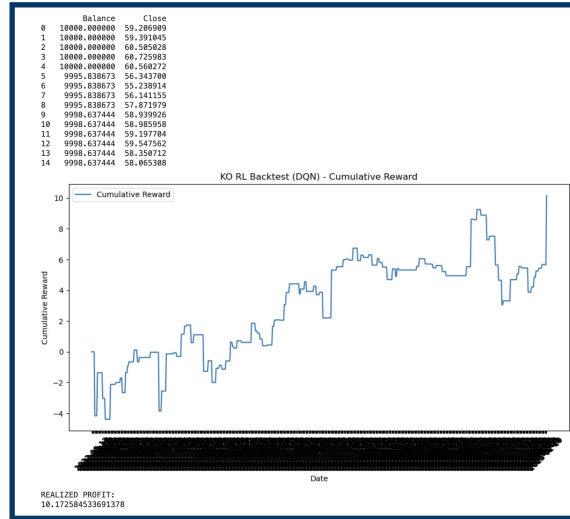
# Reinforcement Learning Realized Profit

## Tesla



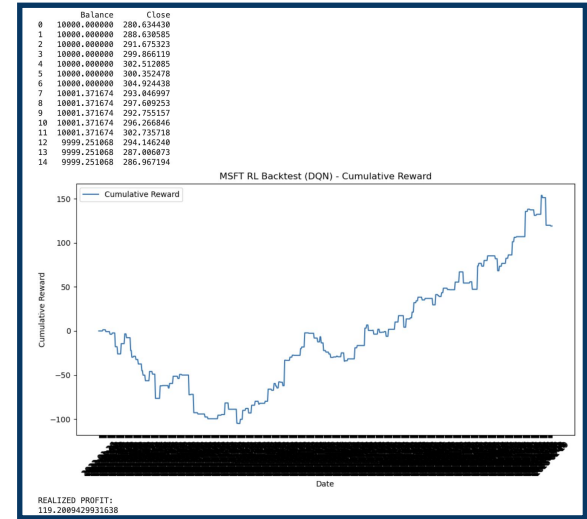
**\$86 (+21%)**

## Coca Cola

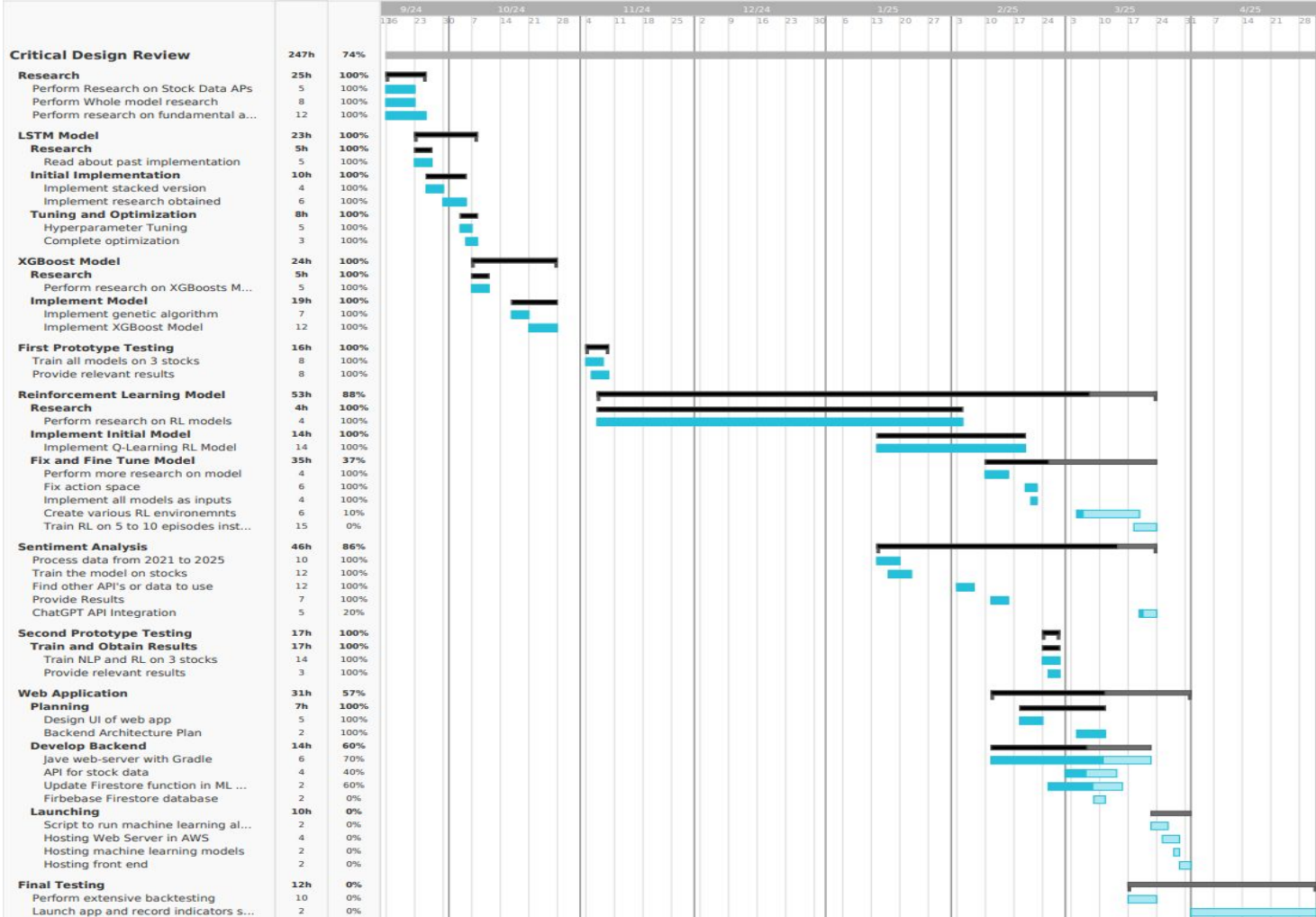


**\$10 (+16%)**

## Microsoft



**\$119 (+35%)**



# Conclusion

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- ★ *Developed and fully tested ML models (including LSTM, NLP, XGBoost, and Reinforcement Learning)*
  - *Sufficient results*
- ★ *Strong foundation for our User Interface*
  - *Finish development hosted in the cloud*
  - *Fully test web application while developing*
- ★ *Compare full trading results against firms and see how to improve returns*