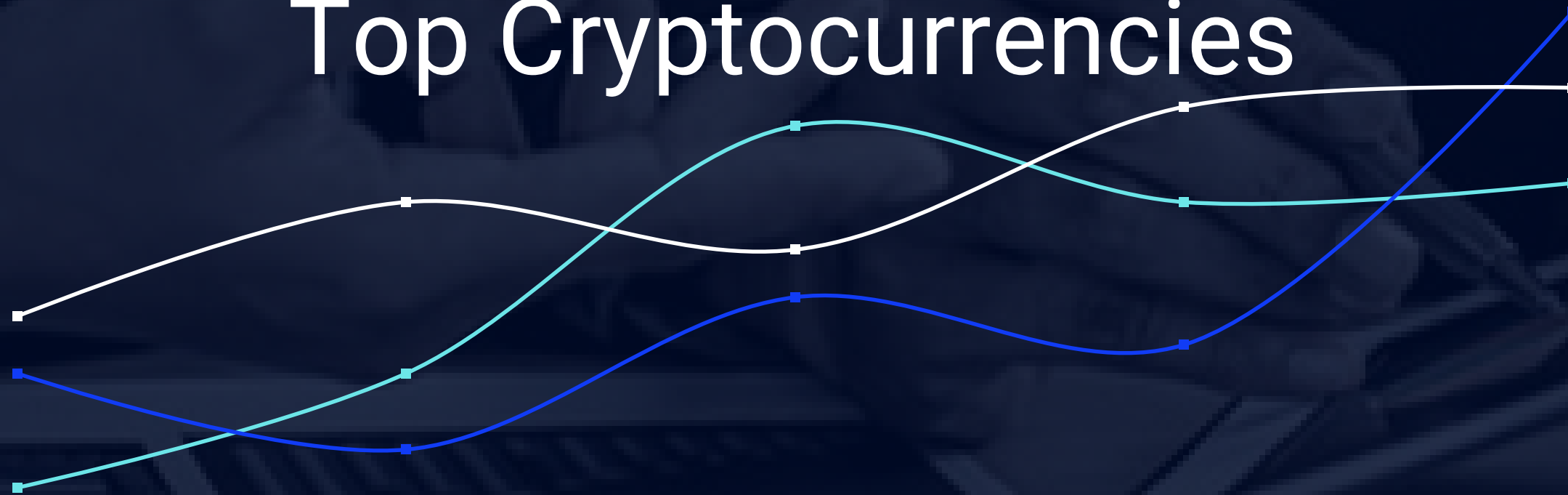




Sentiment Analysis and Price Prediction of Top Cryptocurrencies



CRYPTO

MONEY





PROBLEM STATEMENT

This project aims to analyze sentiment for Bitcoin, Ethereum, and Ripple in the cryptocurrency markets and predict the price movement of the most positively sentimented cryptocurrency for the next 30 days.





RESEARCH QUESTIONS

- ✓ What sentiments are found in online discussions, news, and social media about Bitcoin, Ethereum, and Ripple?
- ✓ Which cryptocurrency shows the most positive sentiment among Bitcoin, Ethereum, and Ripple?
- ✓ How can sentiment analysis be integrated effectively into cryptocurrency price prediction models?
- ✓ What factors affect the accuracy and reliability of sentiment-based price predictions for cryptocurrencies?

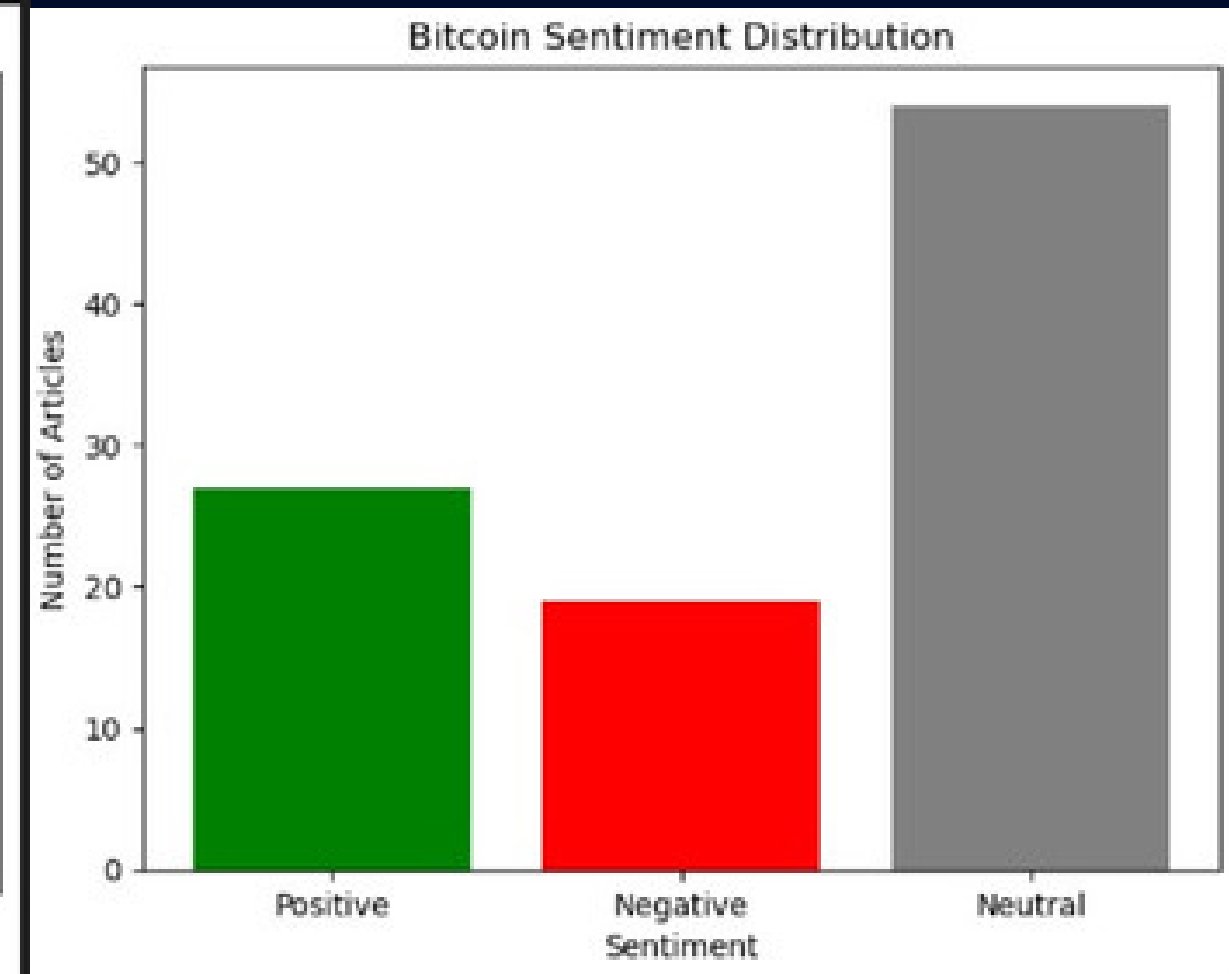
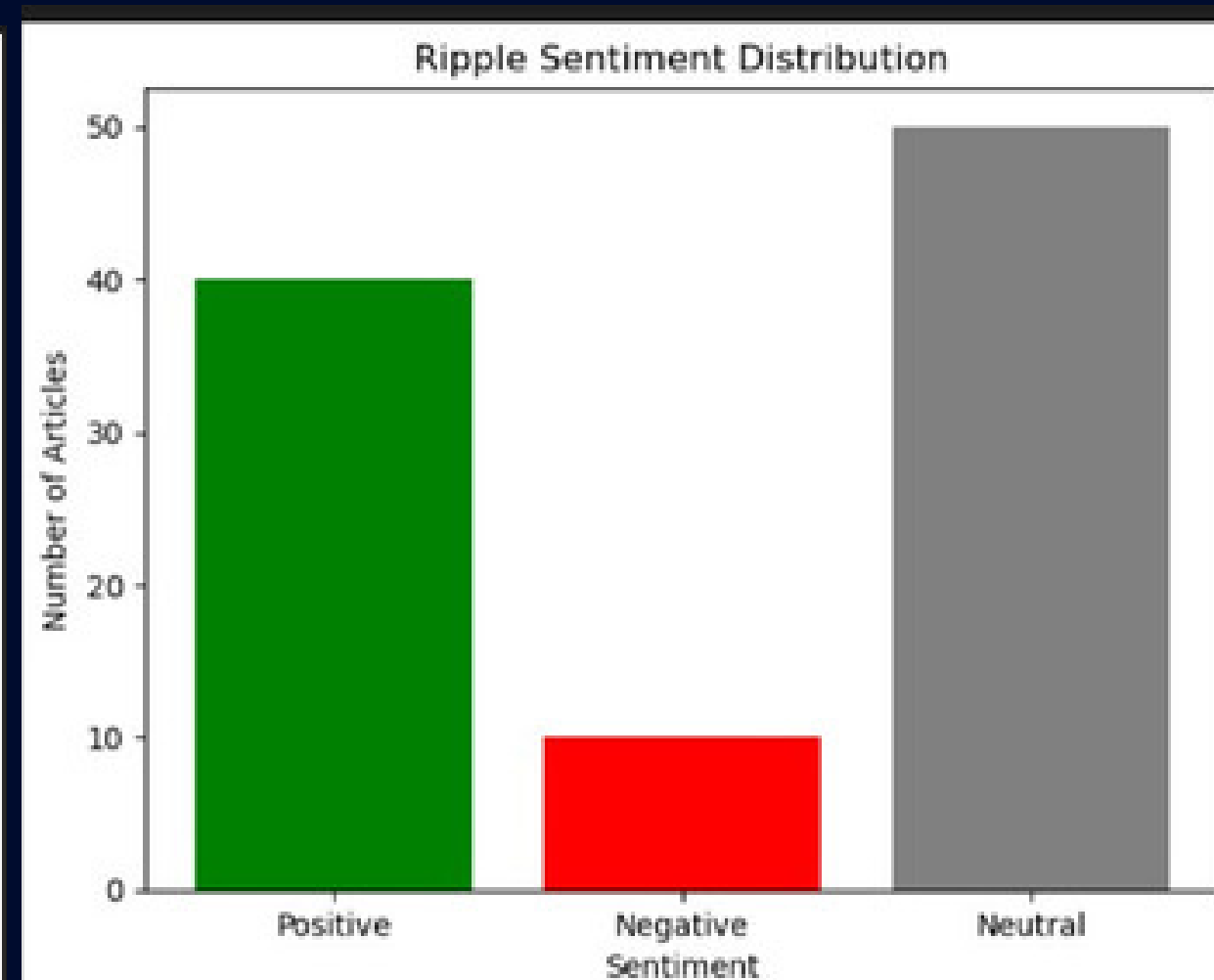
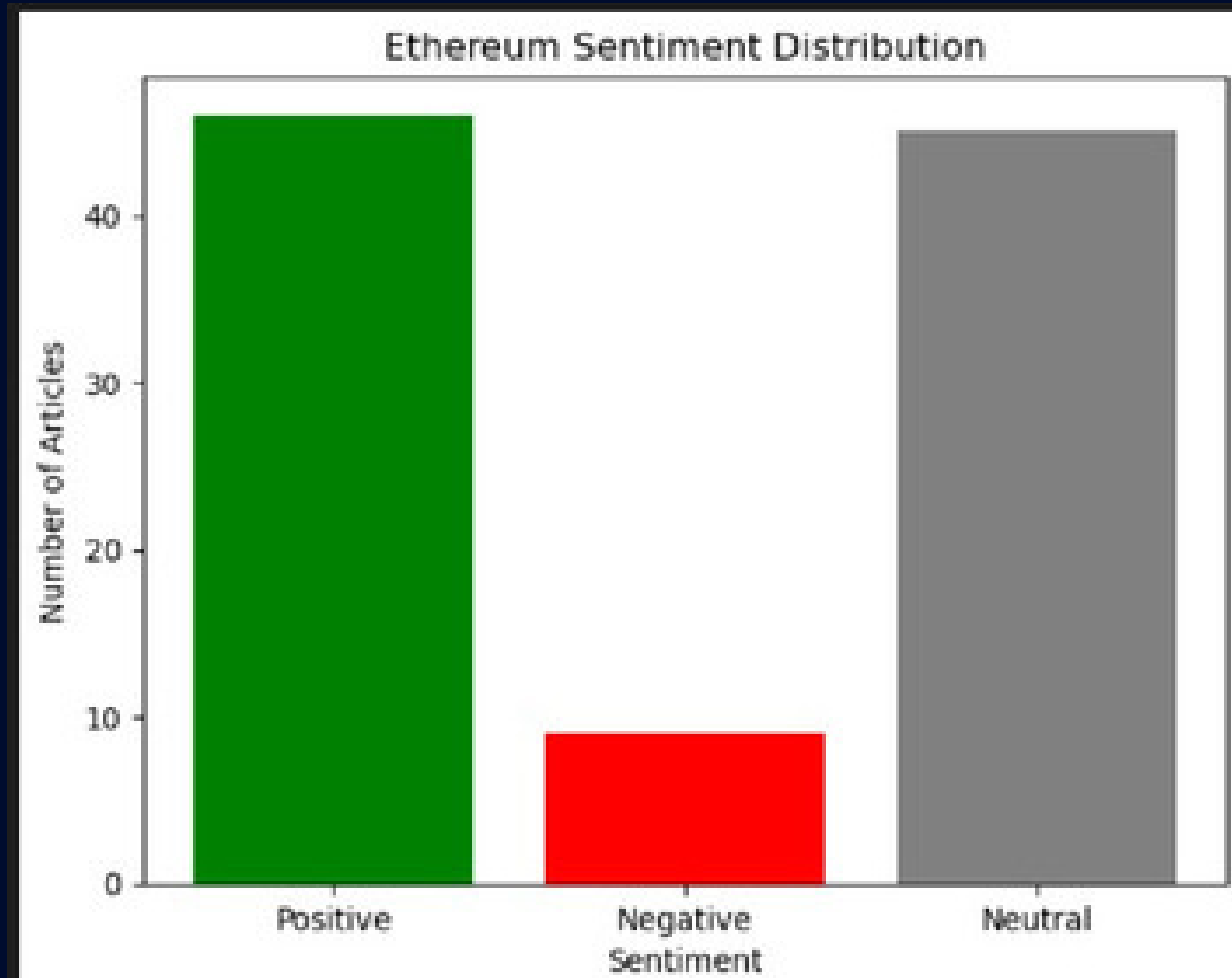
A large, detailed Bitcoin coin is positioned in the lower-left foreground, partially overlapping a reflective surface. The coin's design, including the 'B' symbol and the words 'BITCOIN' and 'DECENTRALIZED DIGITAL CURRENCY', is clearly visible. In the background, a financial chart is displayed on a dark grid. The upper portion of the chart features a candlestick pattern with green and red bars, indicating price movements. Below this, a bar chart with green and red bars is visible. Time markers '00:00' and '12:00' are present on the chart's horizontal axis. The overall scene is illuminated with a warm, golden light, creating a sense of high-tech finance.

- 

-



RESULTS



FORECAST

ETHEREUM PRICE ANALYSIS



2024-03-18	3571.865684
2024-03-19	3568.648583
2024-03-20	3567.739239
2024-03-21	3566.556650
2024-03-22	3564.865299
2024-03-23	3557.985434
2024-03-24	3550.524729
2024-03-25	3541.869715
2024-03-26	3528.565287
2024-03-27	3515.338415
2024-03-28	3499.686965
2024-03-29	3481.868358
2024-03-30	3464.297470
2024-03-31	3447.851411
2024-04-01	3430.234871
2024-04-02	3413.911728
2024-04-03	3398.127168
2024-04-04	3382.918734
2024-04-05	3368.288828
2024-04-06	3354.284241
2024-04-07	3340.926282
2024-04-08	3328.242458
2024-04-09	3316.262381
2024-04-10	3305.814849

As of March 18, 2024, Ethereum's price is forecasted to be approximately USD 3571.865684



Ethereum shows the
most positive sentiment.

Next Steps:

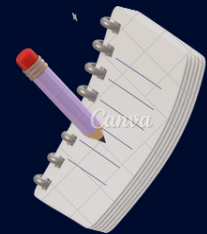
- Get historical Ethereum data with yfinance.
- Use machine learning to predict Ethereum's next 30-day price.
- Train a model with historical data, sentiment scores, and features.
- Evaluate model performance for informed investment decisions.



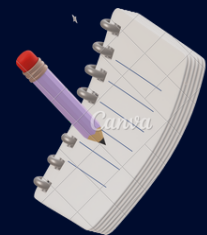
RECOMMENDATIONS



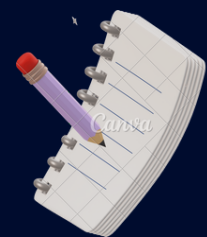
Approach investment decisions cautiously.



Diversify portfolios.



Stay informed about industry developments.



Regularly review strategies.

DEPENDENCIES

NEWS API
NLTK
YFINANCE



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A close-up shot of a person's hand, wearing a dark suit jacket and a white shirt cuff, holding a glowing, translucent sphere. The sphere is filled with a bright blue, ethereal light and contains the words "THANK YOU" in a bold, white, sans-serif font. The background is dark and out of focus, showing some faint, glowing blue lines that suggest a digital or futuristic environment.

**THANK
YOU**