



# Ethereum: The future

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# Research Question and Motivation

Using factors such as the GDP of big countries and the prices of the S&P500 and NASDAQ, can we predict the future of Ethereum Price?

As Bullish Investors in the Ethereum community, we wanted to look into the data for the price of Ethereum, as well as other factors and see if we would be able to predict the future of the price.



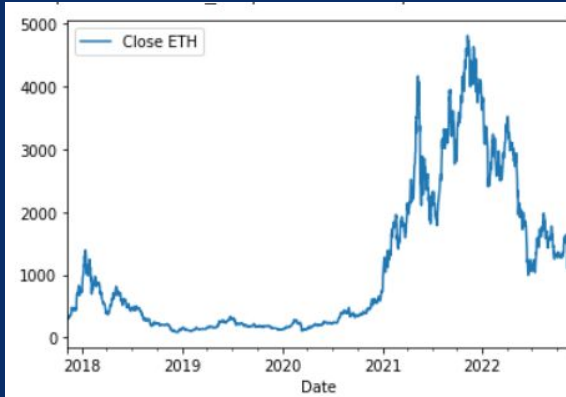
# Data Collection and Cleaning

- Observational Units: Ethereum Price on a given day
- Variables: S&P500 Price, NASDAQ Price, and GDP of Major Markets
- Data was surprisingly difficult to find, especially historic data
- Data cleaning involved:
  - Renaming columns, formatting dates
  - Merging / joining datasets
  - Filtering out junk values

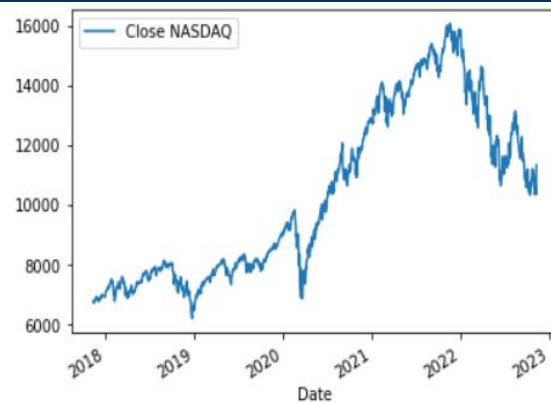


# Data Visualization

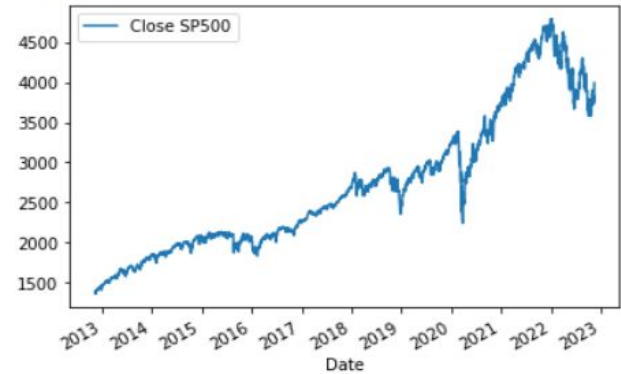
Ethereum Price 2018-2022



NASDAQ Price 2018-2022

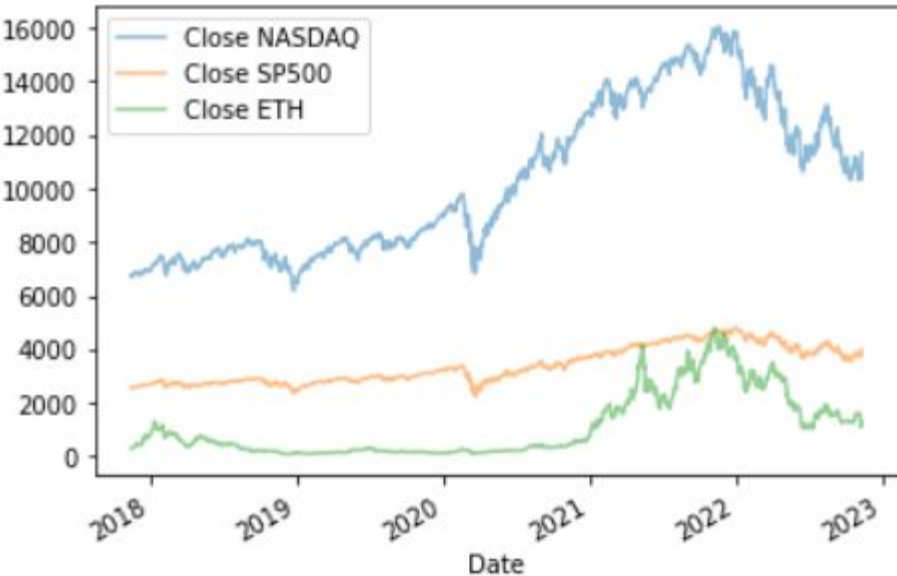


S&P 500 Price 2013-2022

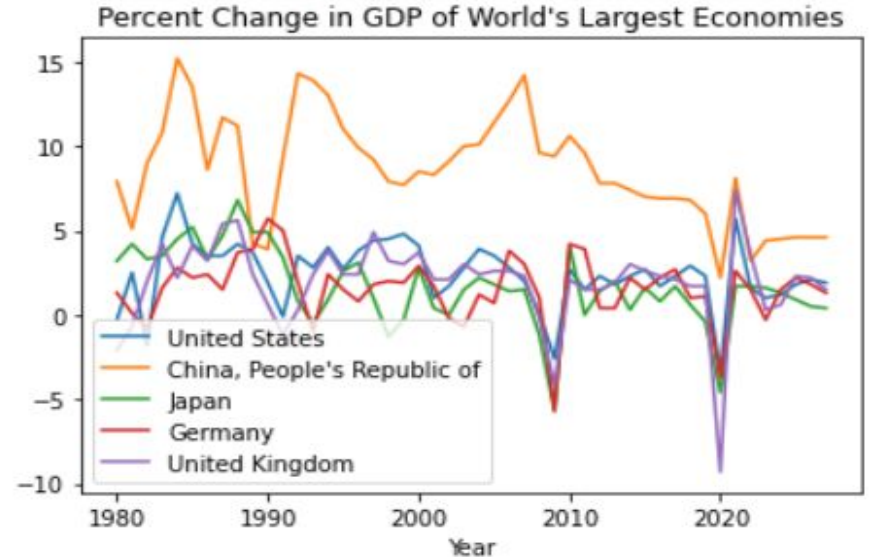


# More Data Visualizations

All Three Prices 2018-2022



Top Economies GDP % Change by Year

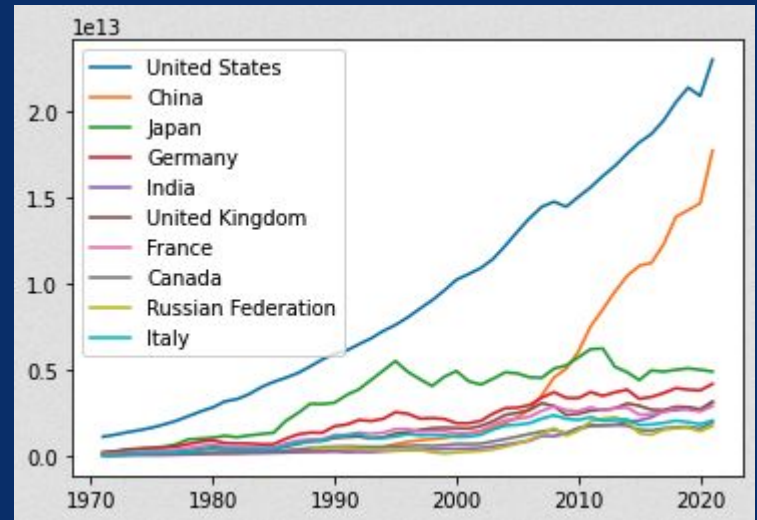


# Historic Data

NASDAQ prices at the beginning of the year:  
1971 - 2021, in USD

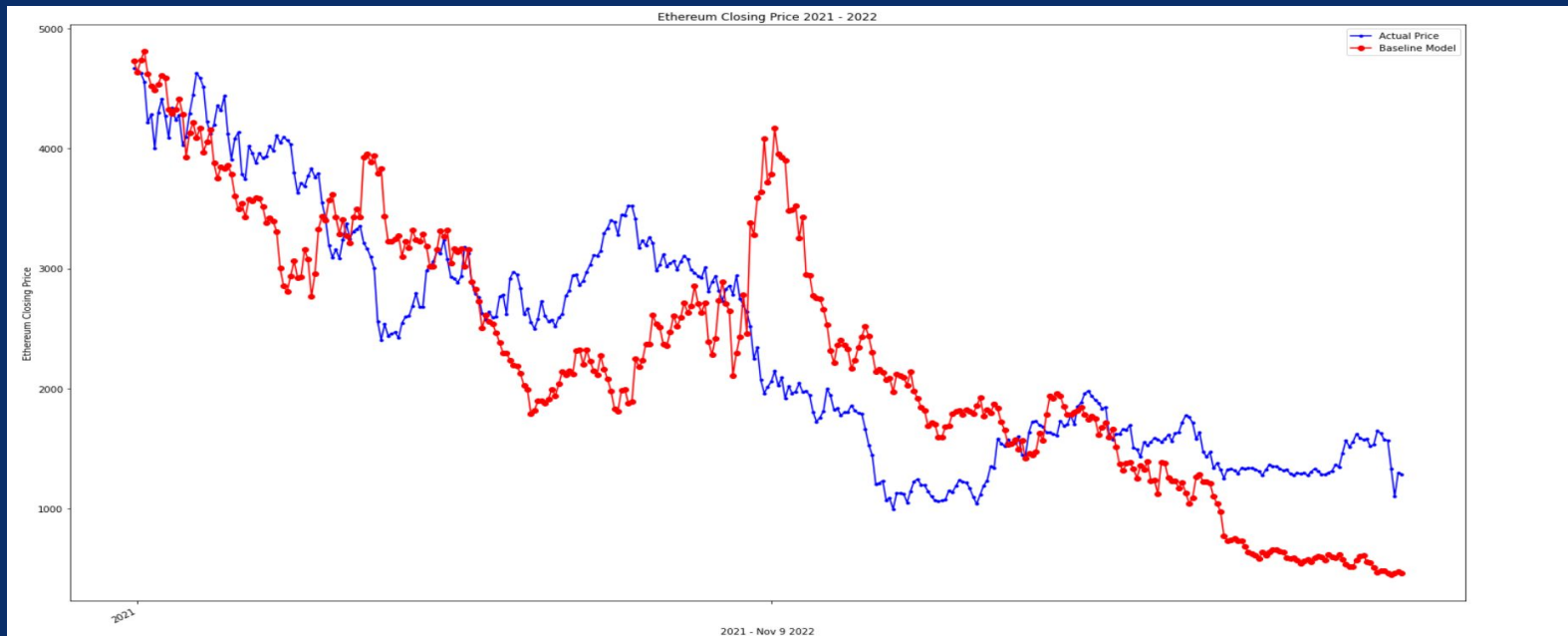


Top 10 GDPs of the world:  
1971 - 2021, in USD  $\times 10^{13}$



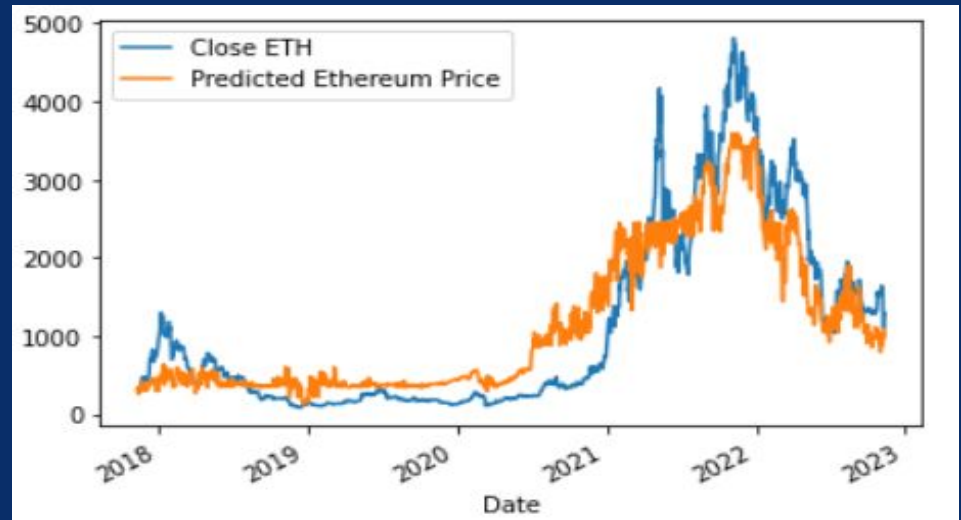
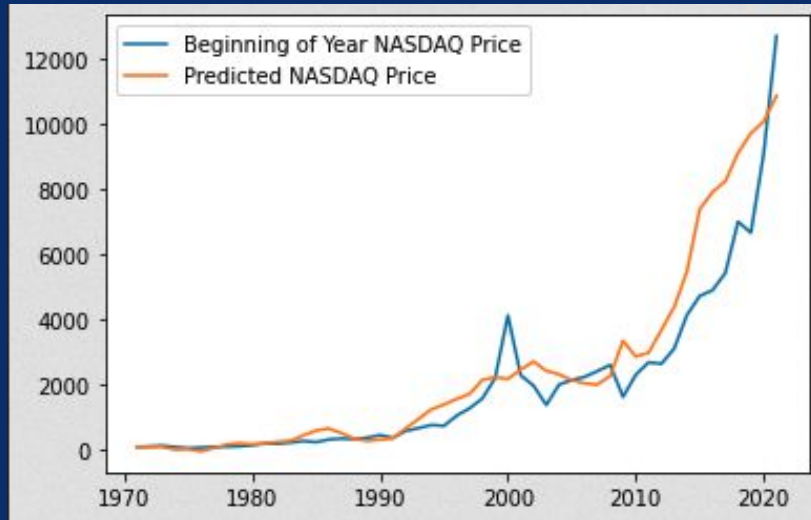
# Model 1: Predicting Ethereum Price on Baseline Ethereum

- Purely predicting on Ethereum price
- We can see this isn't a great model



# Model 2: Predicting Ethereum Price Using GDP

- GDP of major countries used to predict NASDAQ price
  - Best features: US, China, Canada
- NASDAQ prices were then used to predict price of Ethereum

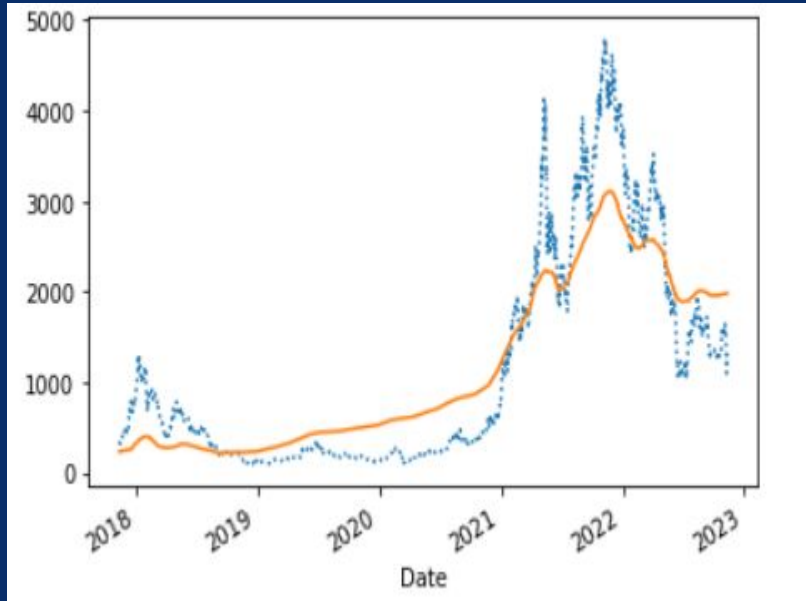




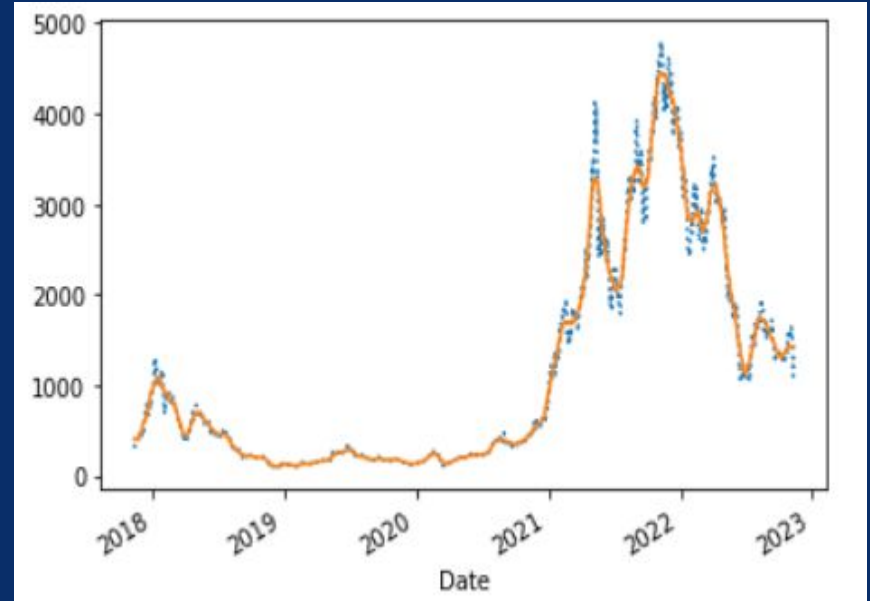
# Model 3: Predicting Ethereum Price on Forecasting

- Which of the 4 models was best(Linear, KNN, Ensemble, Stacking)

Ensemble Model



K-Nearest Neighbor Model



# Some Predictions

Year	Data 301	Analytics Insight	Prime XBT	Yahoo Finance
2023:	\$3099	\$3250	\$3364	N/A
2024:	\$4056	\$4101	\$3845	N/A
2025:	\$4605	\$4576	\$5047	\$5154
2028:	\$6548	\$6303	\$9200	N/A
2030:	\$8098	\$10000	\$11500	\$11727
		<a href="https://www.analyticsinsight.net/ethereum-price-prediction-2022-2030-2/#:~:text=According%20to%20the%20latest%20Ethereum,2027%2C%20and%20%249%2C567%20in%202030.">https://www.analyticsinsight.net/ethereum-price-prediction-2022-2030-2/#:~:text=According%20to%20the%20latest%20Ethereum,2027%2C%20and%20%249%2C567%20in%202030.</a>	<a href="https://primexbt.com/for-traders/ethereum-price-prediction-forecast/">https://primexbt.com/for-traders/ethereum-price-prediction-forecast/</a>	<a href="https://www.yahoo.com/video/ethereum-price-undervalued-since-merge-140455391.html">https://www.yahoo.com/video/ethereum-price-undervalued-since-merge-140455391.html</a>

# Conclusion



As we can see, prices are expecting massive increases.  
So hop on, we're going to the MOON!

