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Final Blog Post

We completed our last methodology which was the Trading Indicator Methodology. This involved looking at 7 features which are prominent in economics and evaluation price changes over time. We used the 7 features to predict buying or selling for the change in price for the next day. We didn't expect to get that good of the result because a lot of economic theory suggest that past prices only determine current price, not future price. To our surprise, we actually got pretty decent results. Our best predictions came mainly from the Rate of Change of Price feature which had 58% accuracy on SVM, LOG and NB. Its approach was heavily leaning towards buying almost each day.

We also create a visualization for this which showed the change in monetary gain for all the features' predictive strategies versus the real trend of just holding over a period of time. We at one point, with some of the features were able to beat the market by more than double its current price, but in the end, weren't able to beat it with the trading trend approach.

Moving on to the macroeconomic trend, the last thing we did was create another visualization. We realized that a lof of our visualizations were just line charts and wanted to express our data in more creative ways. We created a pie chart which had many rings. The inner rings were the earlier periods of time starting around 2012 and the most outer ring was a period of time ending in 2016. Each ring represents the distribution of bitcoins bought in either USD, Yuan or Euro. We had this visualization to show the growing influence of Yuan and Euro in the bitcoin market as there is a trend of more of those currencies purchasing bitcoins.

In conclusion, our results matched with what we expected. We expected the trading indicator not to do as well as the other indicators. We didn't believe it to do as well as the others because the future of the price of bitcoin can be influenced by so many outside factors. The macroeconomic approach was the best as it predicted with an accuracy of 62% for Yuan with SVM.