Programming Languages Fall 17
Term Project Proposal

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Overview of the Project Idea:

Cryptocurrency marketplaces are now issuing 2 billion dollars a day. One of the biggest problem of the marketplaces is people cannot automate the process of selling and buying cryptocurrencies.

Given the volatility of the marketplace prices, people reported it's somehow easy to model for strong devaluation. Our idea is creating some financial tools which analyzes bitcoin historiographical data and trends to create models out of it. By utilizing data, people can find patterns for different distribution of the trends of transactions. With the trained model they can set automated thresholds, to sell or buy wholesale cryptocurrencies.

Programming paradigms:

Procedural: Apache server configuration and customizations in C.
Object Oriented: Java, Python (Machine Learning libraries are heavily used in python frameworks. For example scikit)
Functional: Scala