Title: Mastering the Trade

Members: Anand, Eduardo, Kyle, Sarah

Our project is to assess various assets using 21 day moving average. We’ll examine each asset for performance and projections, in order to identify when to buy, sell, and hold, thereby identifying which are best as long term vs short term investments.

Datasets to be used: Alpaca to pull data for BLCN, SPY (bench mark), TSLA, GDX

Breakdown of tasks:

Extract data

Clean data:

-remove all columns except close

-5 yr period

Analysis

-MC

-STD DEV

-Calc Co-var identify risk vs return

-Calc 21day moving avg

-Sharp ratio

-Compare w/ bench marks

Plots:

-Bar for Std Dev

-Line for 21day moving avg

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Summary/Discussion of Results/Plots

* Title Slide
  + Include the name of the project and group members.
* Motivation & Summary Slide
  + Define the core message or hypothesis of your project.
  + Describe the questions you asked, and *why* you asked them.
  + Describe whether you were able to answer these questions to your satisfaction, and briefly summarize your findings.
* Questions & Data
  + Elaborate on the questions you asked, describing what kinds of data you needed to answer them and where you found it.
* Data Cleanup & Exploration
  + Describe the exploration and cleanup process.
  + Discuss insights you had while exploring the data that you didn't anticipate.
  + Discuss any problems that arose after exploring the data, and how you resolved them.
  + Present and discuss interesting figures developed during exploration, ideally with the help of Jupyter Notebook.
* Data Analysis
  + Discuss the steps you took to analyze the data and answer each question you asked in your proposal.
  + Present and discuss interesting figures developed during analysis, ideally with the help of Jupyter Notebook.
* Discussion
  + Discuss your findings. Did you find what you expected to find? If not, why not? What inferences or general conclusions can you draw from your analysis?
* Postmortem
  + Discuss any difficulties that arose, and how you dealt with them.
  + Discuss any additional questions that came up, but which you didn't have time to answer: What would you research next, if you had two more weeks?
* Questions
  + Open-floor Q&A with the audience