**Getting started**

* Fetching Stock Data
* Fetching Crypto Data - Adrian
* Data Cleansing

**20k Investment**

* Stock Performance over 5 years – graphs for individual stocks
* Crypto Performance over 5 years - graphs for individual crypto
* Comparison between stock and crypto
* What would be a better strategy = 50:50: 60:40 or 40:60
* Heat Map

**Conduct Quantitative Analysis**

**Valatiltiy**

**Sharpe-ratio -**

* Negative news eg: Covid, Russia/Ukraine war, inflation, or rate-hike?
  + 3 or 6 months returns, post the event

Download CSV from gov site.

Key announcements – inflation etc

**Monte Carlo – Sensitivity: (2-3 or max 5 events)**

Use historical data before the key event

**Graphs + Dashboard (6-8 visualisation)**

* Stock over 5 years
* Crypto over 5 years
* Comparison
* Split - 50:50: 60:40 or 40:60
* Monte-carlo graphs – key events
* Sharpe-ratio

**Optional - Detail strategy – trading strategy –**

* follow trend?
* when to buy or sell?
* **Fetch data from twitter?** –
* twitter api? Topic modelling? Key word search (Elon Musk + key-word search Dodge)

Questions that our analysis answers?

* Correlation – inflation or interest rate
* key black-swan or white-swan events

# Checklist

## Presentation:

Group described the core message or hypothesis for the project.

Group described the questions they found interesting and what motivated them to find the answers.

Group summarized where and how they found the data used to answer these questions.

Group described the data exploration and clean-up process (accompanied by Jupyter Notebook).

Group described the analysis process (accompanied by Jupyter Notebook).

Group summarized their conclusions, including a numerical summary (i.e., what data did the analysis yield), as well as visualizations of that summary (plots of the final analysis data).

Group discussed the implications of their findings.

## Coding Conventions and Formatting

Move imports to the top of the file, just after any module comments and docstrings, and before module globals and constants.

Name functions and variables with lowercase characters, with words separated by underscores.

Follow DRY (Don't Repeat Yourself) principles, creating maintainable and reusable code.

Use concise logic and creative engineering where possible.

## Deployment and Submission

Contained in a repository cloned to your local machine.

Added to the repo using the command line.

Contains appropriate commit messages.

**Sunday – 2 hours….Dashboard**

* S&P 500 for last 5 years, create a new DF = for sharpe ratio = Kurt
* Readme – Raelyn + Parvinder
* Presentation - Raelyn + Parvinder