**Project Proposal**

**Question/need:**

* **What is the framing question of your analysis, or the purpose of the model/system you plan to build?**

I am planning to build a model of a notable stock to check if it’s fit my personal investment goals for the next year.

* **Who benefits from exploring this question or building this model/system?**

Individuals or portfolio managers.

**Data Description:**

* **What dataset(s) do you plan to use, and how will you obtain the data?**

Stocks historical closing prices of a publicly listed company. I may use Amazon or Microsoft. They are accessible through Yahoo finance website or even its library ‘**import** yfinance’. In addition, I may use **Stocker** (class-based tool) to get the data I need.

* **What is an individual sample/unit of analysis in this project? What characteristics/features do you expect to work with?**

Name of the company, its ticker, nature of business, P/E ratio and closing prices. I may consider other features related to Covid effects as well.

* **If modeling, what will you predict as your target?**

If the stock worthy for short investment (1 year). I will use combination of models such as logistic regression, time series analysis and KNN.

**Tools:**

* How do you intend to meet the tools requirement of the project?

I will try to apply my acquired knowledge from this bootcamp to get best results.

* Are you planning in advance to need or use additional tools beyond those required?

There are many sources of useful libraries to use in my project. I am exploring from now and I found amazing ones like, Pyfolio, Statsmodel and pynance.

**MVP Goal:**

* What would a [minimum viable product (MVP)](https://github.com/thisismetis/Metis_Fundamentals/blob/main/project_deliverable_templates/mvp.md) look like for this project?

I will compare my findings with online insights and report to get further understanding about best practices out there.