



# Final Project

My very important thesis topic

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**Fitch**Learning

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Abstract

Brief summary of the project goes here.

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# 1 Introduction

This is how you reference pictures in the text: (Figure 1)

This is how you cite: [1, Some page, some paragraph]

This is how you create nice tables, and reference them (See table 1)

Table 1: Assets selected for portfolio

Ticker	Company name	$\beta$	Sector	Industry
WMT	Walmart Inc.	0.507262	Consumer Defensive	Discount Stores
XOM	Exxon Mobil Corporation	0.936712	Energy	Oil & Gas Integrated
TSLA	Tesla, Inc.	1.43901	Consumer Cyclical	Auto Manufacturers
NEM	Newmont Corporation	0.292796	Basic Materials	Gold
KR	Kroger Company (The)	0.311054	Consumer Defensive	Grocery Stores
GIS	General Mills, Inc.	0.379007	Consumer Defensive	Packaged Foods
META	Meta Platforms, Inc.	1.201507	Communication Services	Internet Content & Information
MRNA	Moderna, Inc.	0.456853	Healthcare	Biotechnology

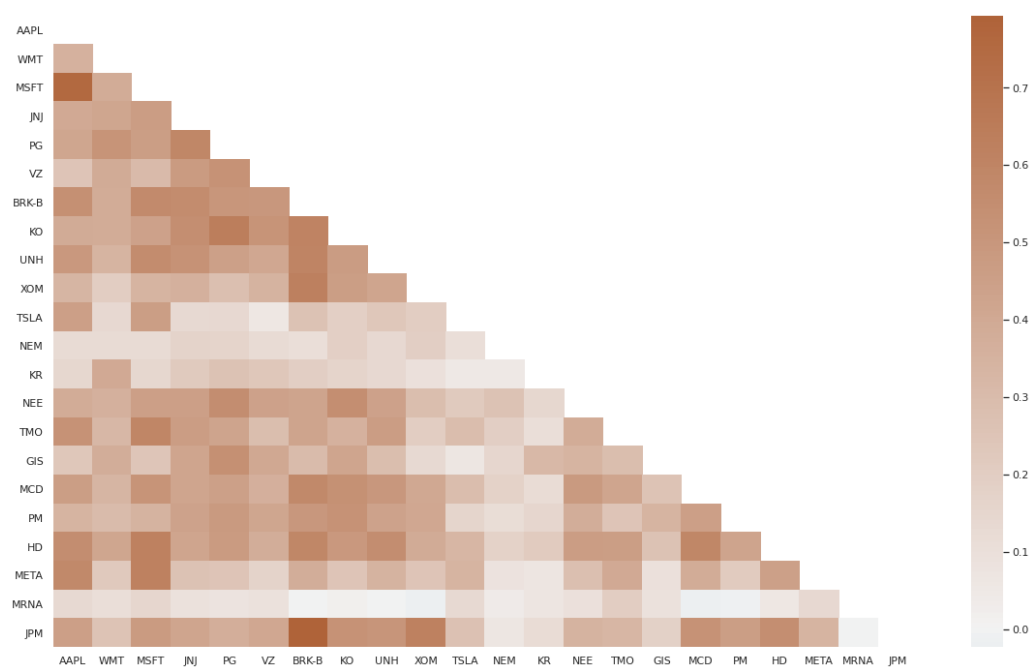


Figure 1: Picture description

This is how you do math and reference equations (1):

$$w^* = \frac{\Sigma^{-1}(\mu_{BL} - r_f \mathbf{1})}{\mathbf{1}^T \Sigma^{-1}(\mu_{BL} - r_f \mathbf{1})} \tag{1}$$

$$E = mC^2$$

This is how you inline math:  $\frac{\partial L}{\partial \omega}(\omega, \lambda, \gamma) = \omega' \Sigma - \lambda \mu' - \gamma \mathbf{1}' = 0$  in the normal text

This is how you do bullet lists:

- Item 1
- Item 2
- Item 3

1. Item
2. Item
3. Item

Paragraph with indent. Paragraph with indent. Paragraph with indent. Paragraph with indent. Paragraph  
with indent. Paragraph with indent. Paragraph with indent. Paragraph with indent. Paragraph with indent.  
Paragraph with indent.

## **2   Methods**

## **3   Research Body**

### **3.1   Very Important Topic 1**

#### **3.1.1   Item 1**

#### **3.1.2   Item 2**

#### **3.1.3   Item 3**

**3.2 Very Important Topic 2**

## 4 Conclusion



## References

- [1] Stephen Hawking. *A Brief History of Time: From the Big Bang to Black Holes*. Bantam, London, 1988.
- [2] John Nash. Non-cooperative games. *Annals of Mathematics*, 54(2):286–295, 1951.
- [3] Some Someone. Some article. <https://www.bibtex.com/e/entry-types/>, 2002.

## Environment setup



To run the Jupyter notebook install dependencies:

```
pip install -r requirements.txt
```

```
cufflinks==0.17.3  
graphviz==0.17  
h5py==3.1.0  
keras==2.6.0  
keras-tuner==1.0.3  
matplotlib==3.3.3  
MiniSom==2.2.9  
missingno==0.5.0  
networkx==2.5.1  
numpy  
pandas==1.2.4  
plotly  
pydot==1.4.2
```



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