

# Are Election Periods the Best Time to Invest?

Jose Yamas



# Why Index Funds?

Importance

## Major Indices in U.S

- World Players
- Accessable
- Stable

Reliability

## Structured Datasets

- No Nested Lists
- Clean Data



# Data Collection



**DOW JONES**

**S&P 500**

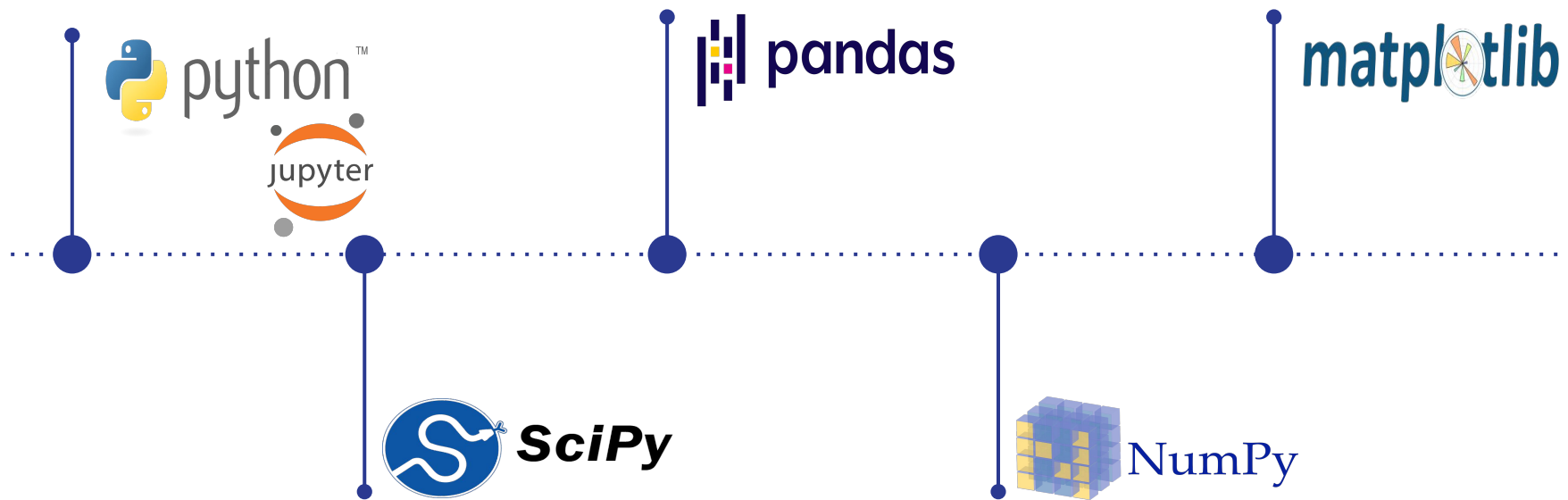
## Yahoo Finance Datasets:

- Dow: 9000+ entries, 7 columns
- Nasdaq: 12000+ entries, 7 columns
- SP500: 23000+ entries, 7 columns

## Time Frames:

- Dow: 1985 - 2020
- Nasdaq: 1971 - 2020
- S&P500: 1927 - 2020

# Tech Stack Tools



# Null Hypotheses

The mean price returns after presidential elections is different than before elections.

# Alt. Hypotheses

The mean price after presidential elections is **not** different than before elections.

---

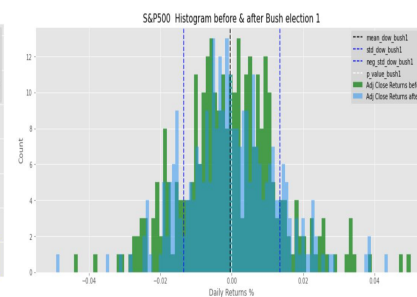
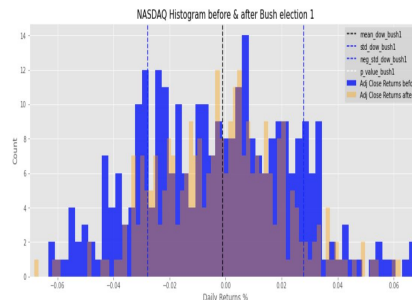
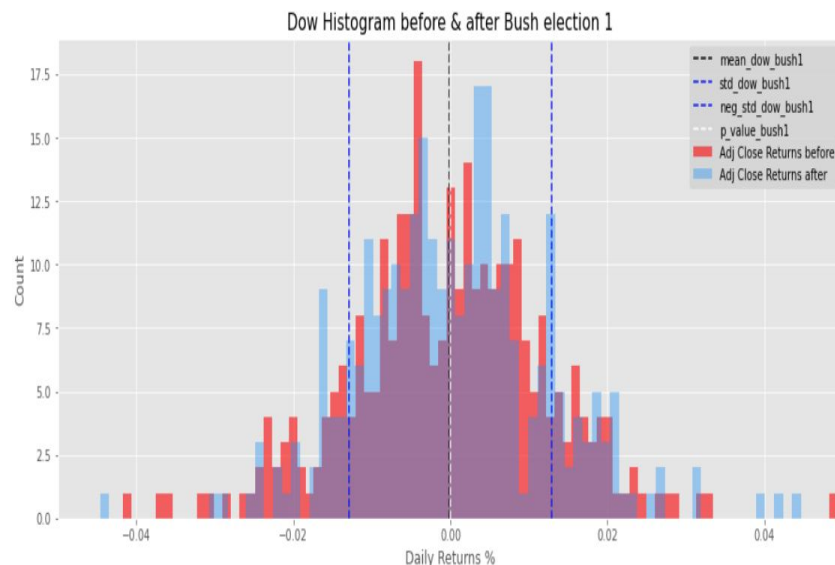
# What Does the Data Say?

Significance Level: 0.01

Test Conducted: Welch's t-test

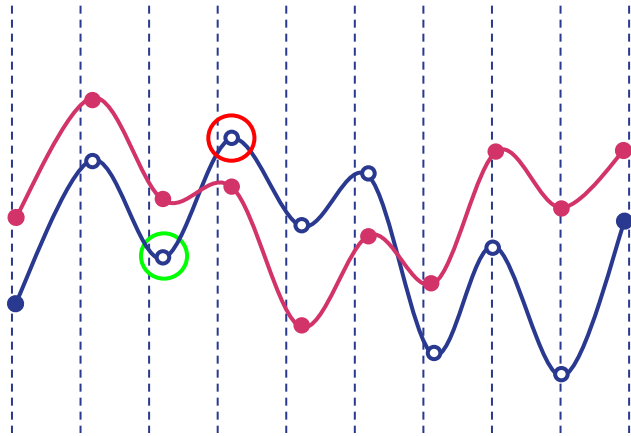
-----	Dow	Nasdaq	S&P500
Clinton	FTR	FTR	FTR
Bush 1	FTR	R	FTR
Bush 2	FTR	FTR	FTR
Obama 1	R	R	R
Obama 2	R	R	R
Trump 1	FTR	FTR	R

FTR= Failed to Reject H<sub>0</sub>, R= Rejects H<sub>0</sub>



{'P-value failed to Reject our Null Hypotheses': 10, 'P-value rejects our Null Hypotheses': 8}

# Future Development



- Test for correlation across markets
  - Add other major indices, cryptocurrencies, bonds and etc.
  - Integrate future prediction models
-

# Thank You!

Jose Yamas



Email:

[yamasjose@gmail.com](mailto:yamasjose@gmail.com)

GitHub:

<https://github.com/yamasjose11>

LinkedIn:

<https://www.linkedin.com/in/jose-yamas/>