

Fawzy Almatary

— Data · Healthcare —

# Space Missions Analysis

# Background

- This is an analysis of all space mission from 1957 to August 2022. Data is provided by [Maven Analytics](#).
- This dataset contains a csv table with 4,631 records, one for each space mission.
- Each record contains details on each mission's name, location, date, and status of the launch, the company responsible, and the price, status, and name of the rocket.

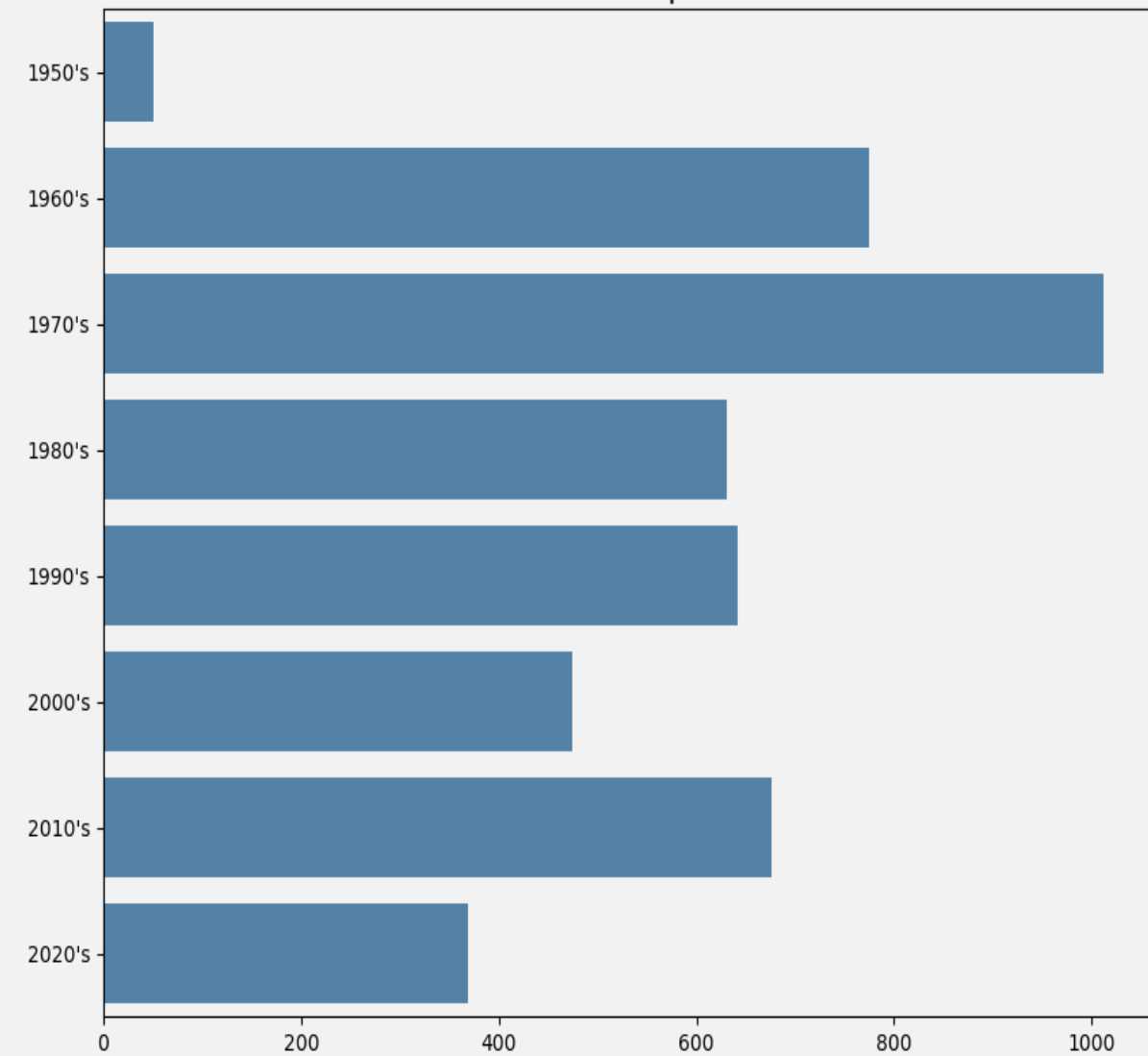
To view the python code used in this analysis, [click here](#).

For a static version of a PowerBI dashboard, [click here](#).

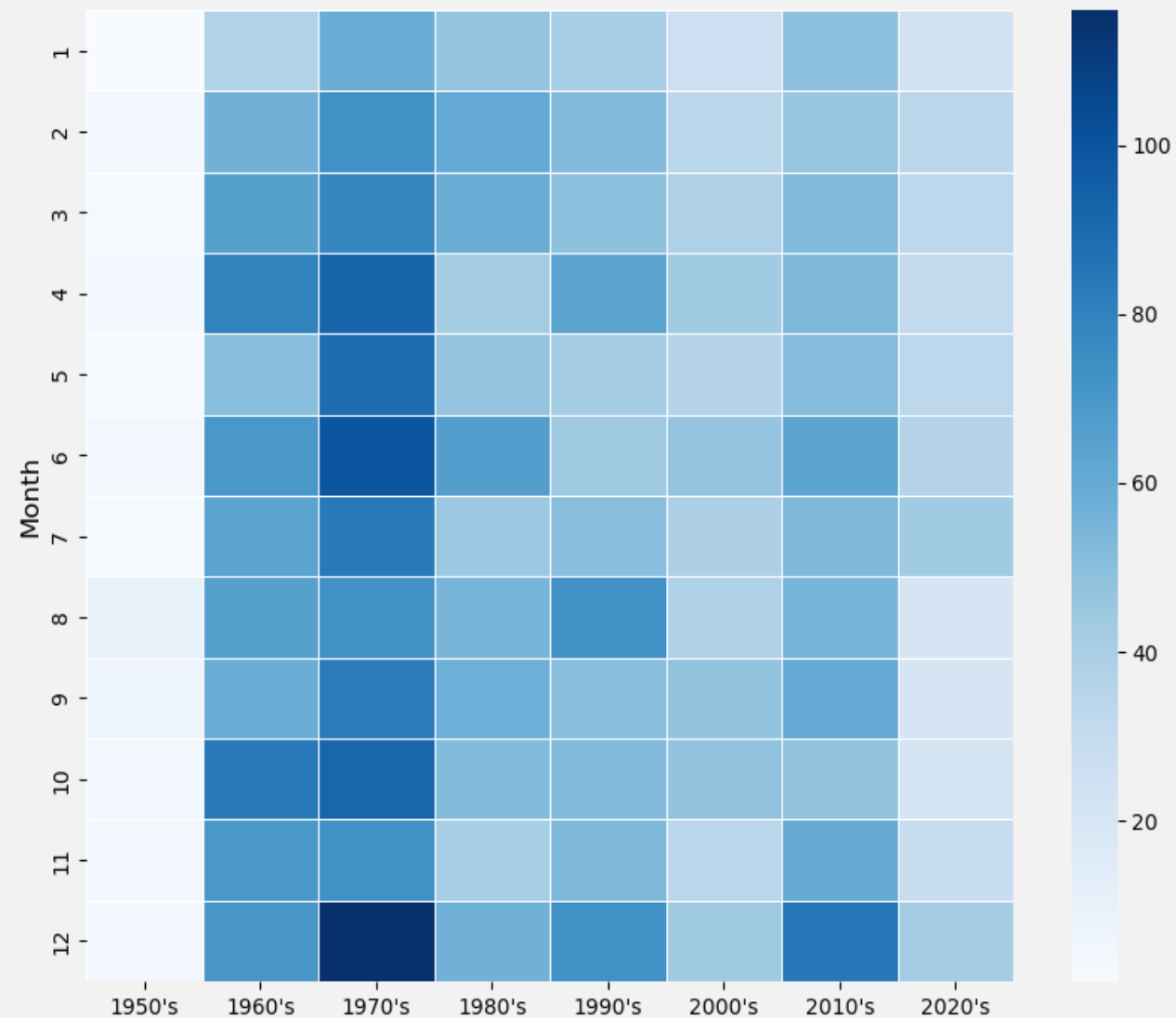
To download the pbix file for the interactive version of the dashboard using PowerBI, [click here](#).

# Launching Times

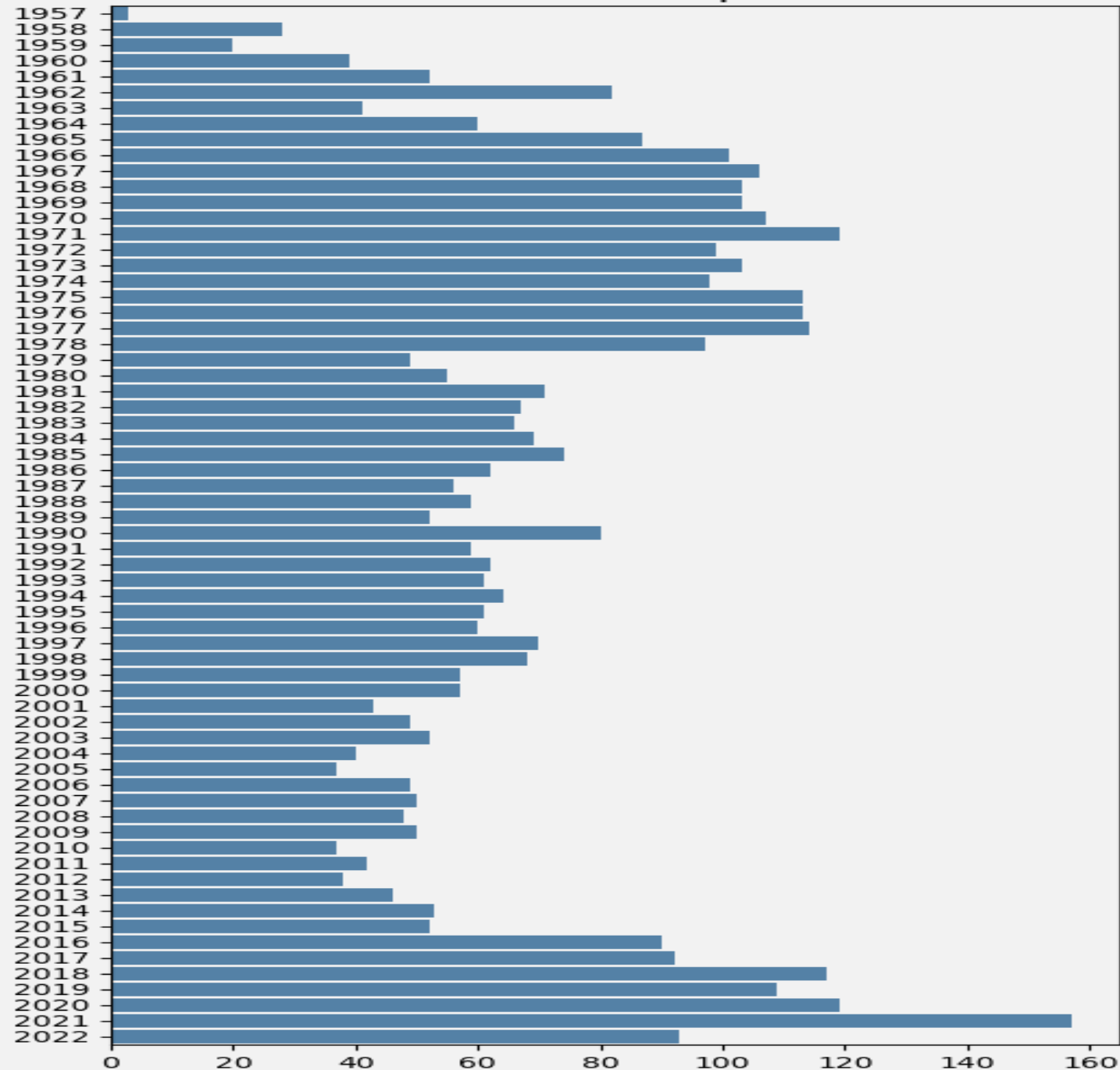
### Launches Count per Decade



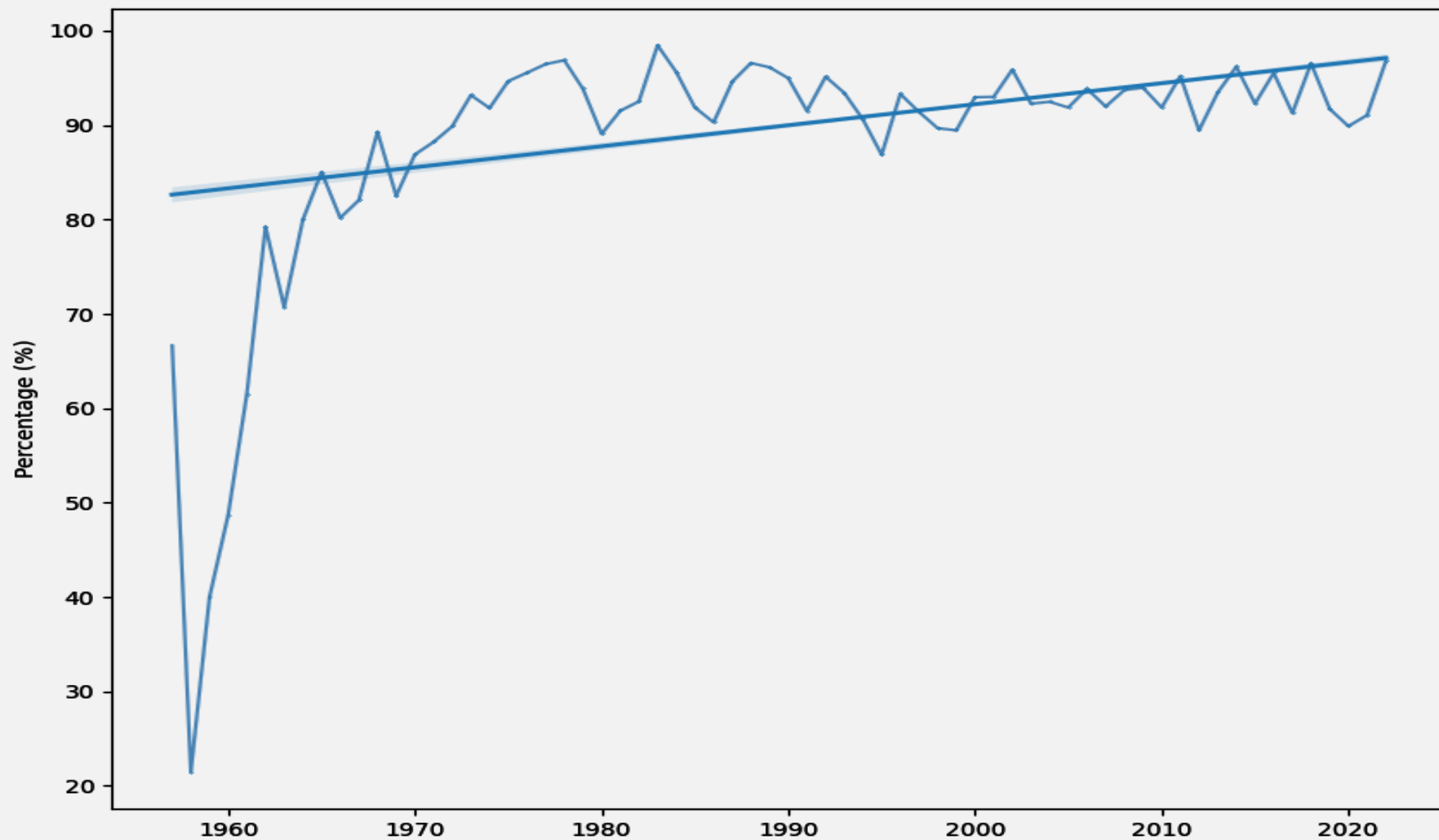
### Average Launches for each Month in each Decade



# Launches Count per Year



Correlation between the Success Rate and Years Passing  
(Correlation=0.46)



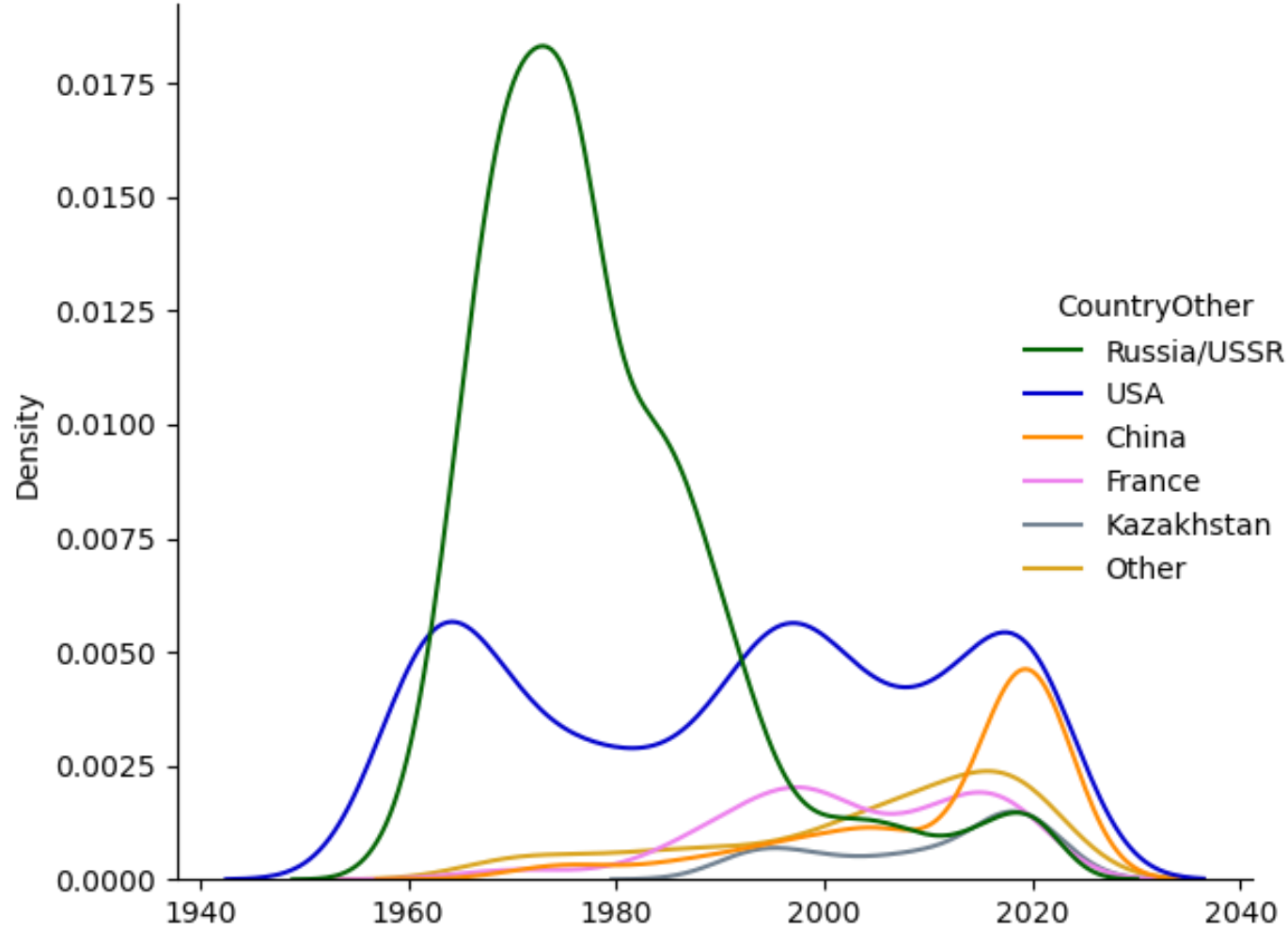
## Notes from the previous plots:

- The seventies was when the most missions took place. Then the number of launches decreased for almost 30 years, but have started to rise again from 2015 till now (August 2022).
- The launches usually happen during weekdays, especially Wednesday. Unlike in the weekends, especially Sunday where launches rarely happen.
- Success rate for launches was low in the fifties and sixties, but has kept a steady rate since the seventies till now.
- There is a moderate positive correlation (0.46) between success rate and years passing.

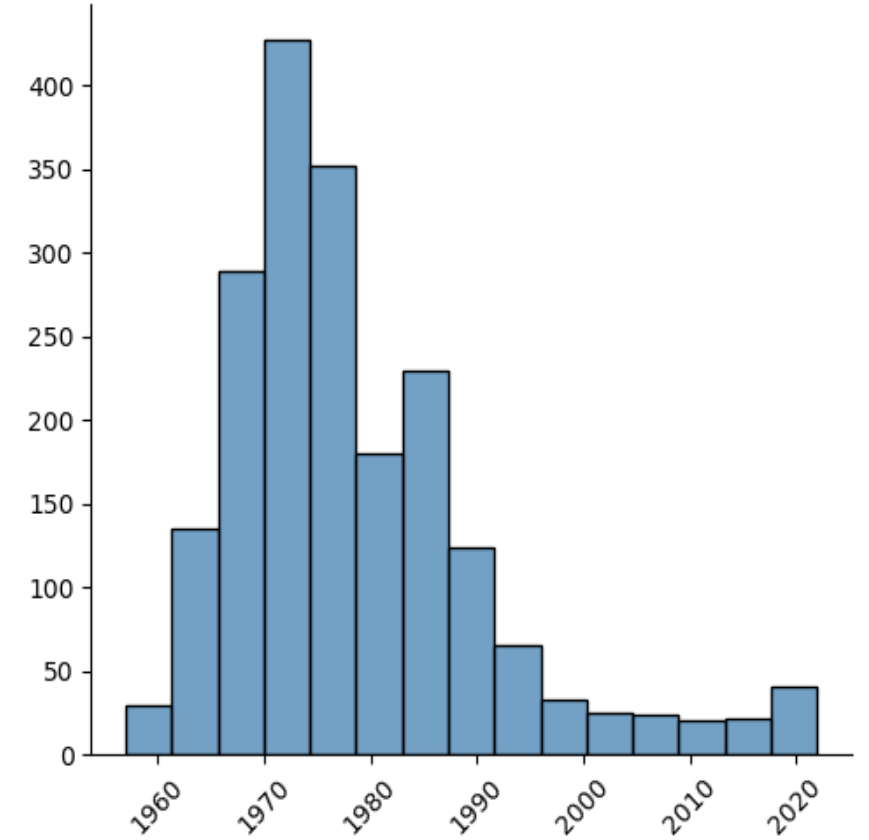
# Top Countries



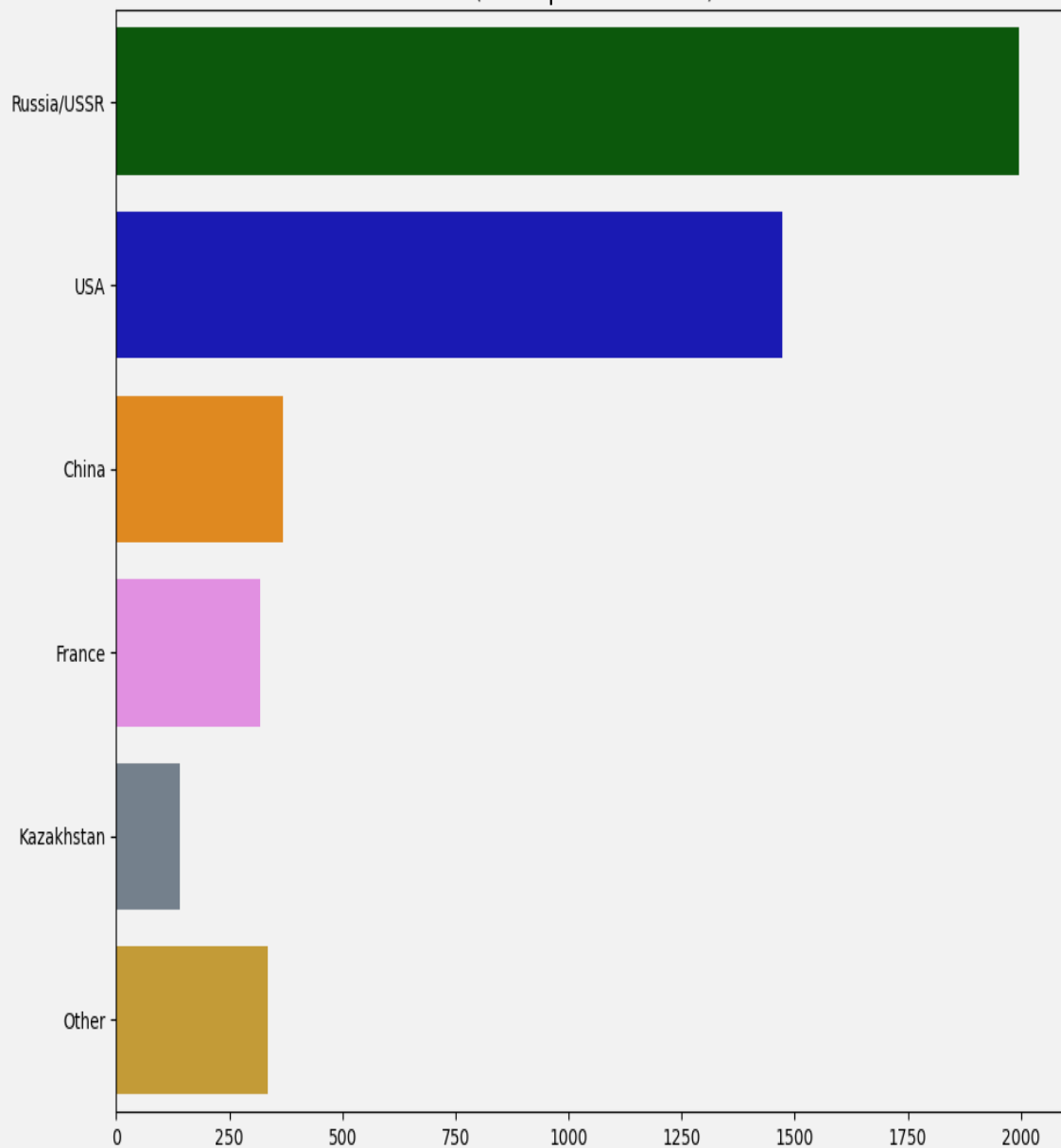
### Frequency of Launches By Year for each Country



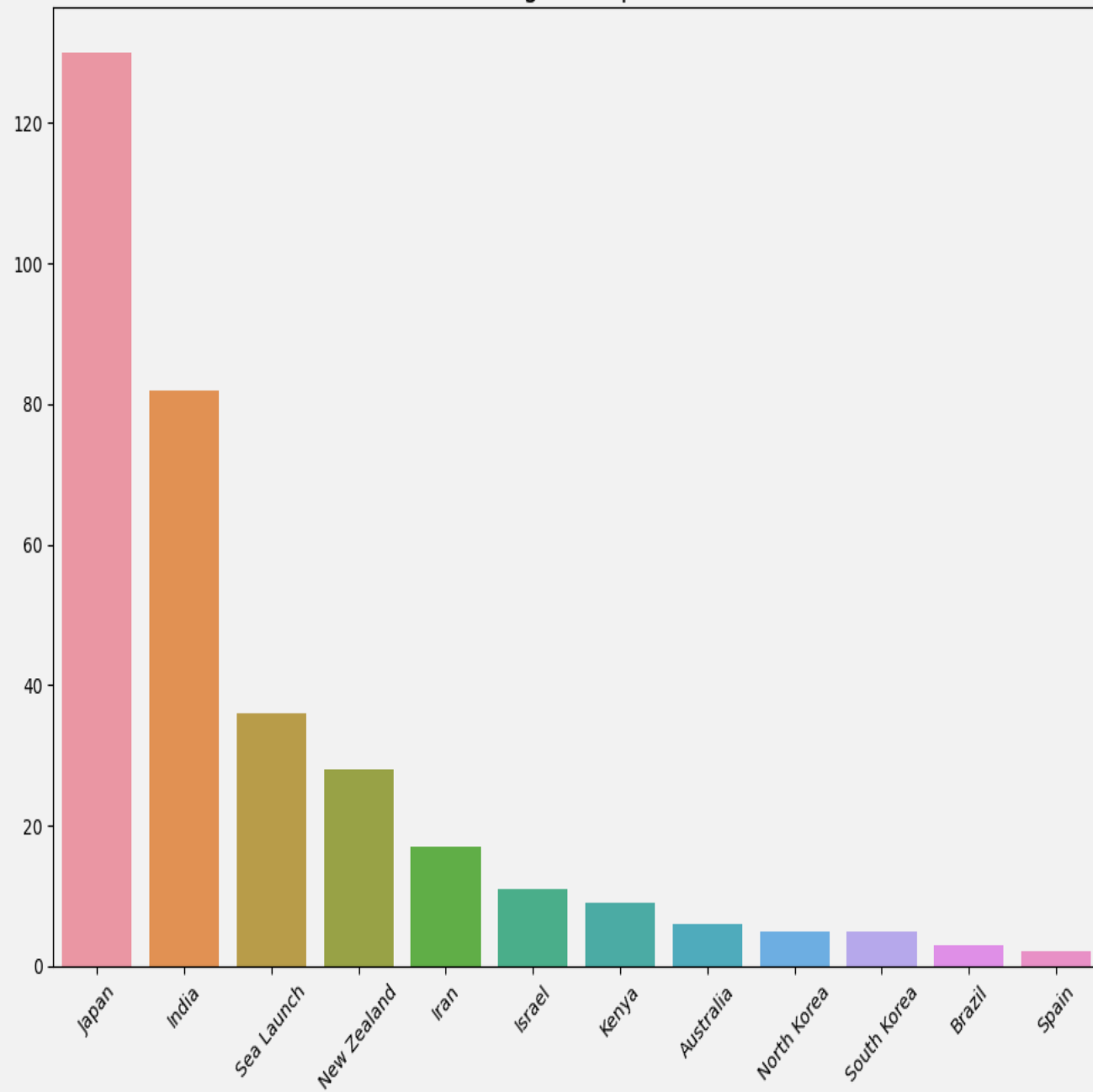
### Distribution of Launches for Russia/USSR



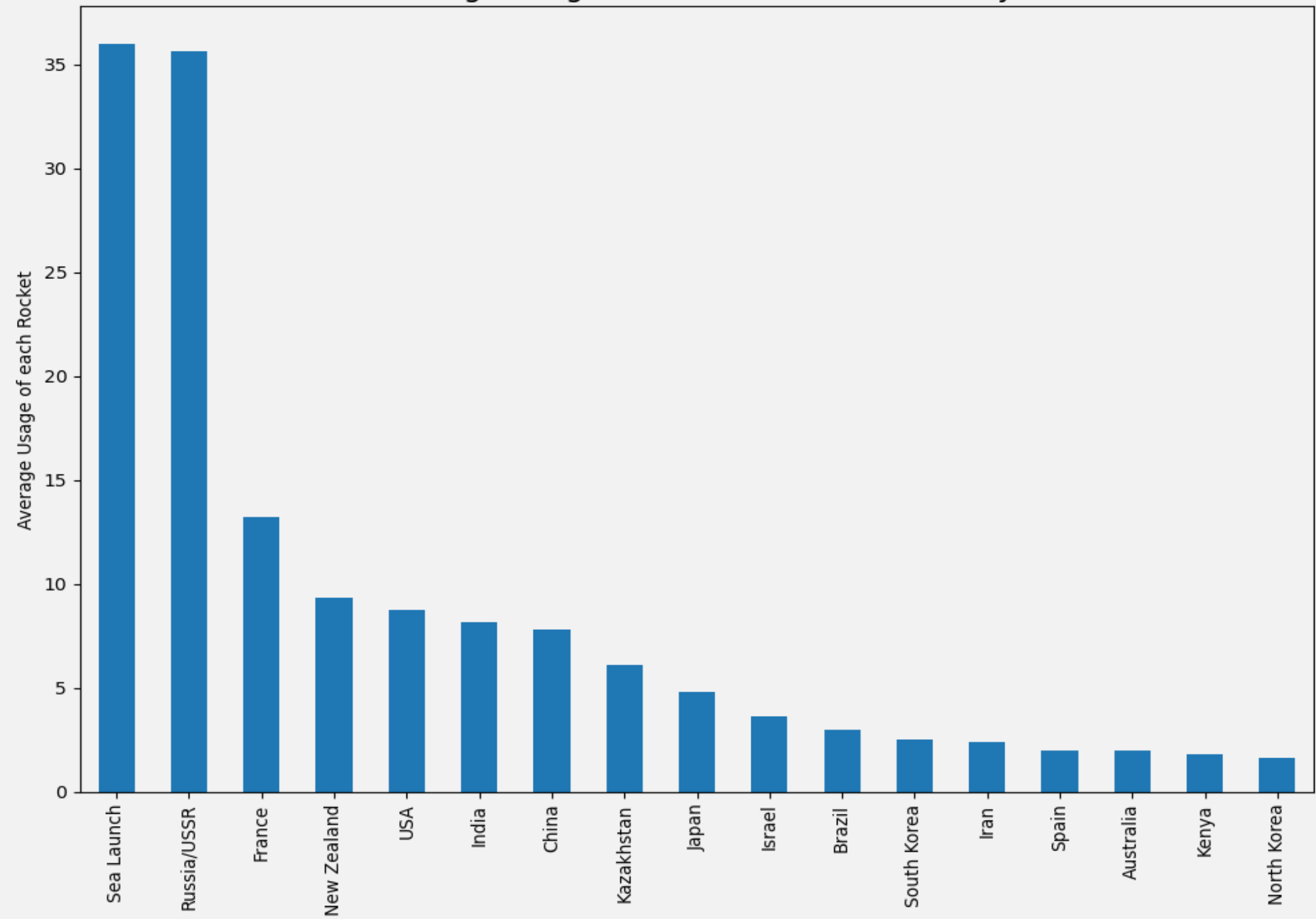
Launches Count per Country  
(for top 5 countries)



Launches Count per Country  
(not including the top 5 countries)



Average Usage of each Rocket Per Country



## **Notes from the previous plots:**

- Russia/USSR has the highest number of space mission launches, especially in the seventies.
- After the dissolution of the USSR, number of launcher by Russia decreased significantly, and it still has not raised till now.
- Even though China entered the space race late compared to other countries (in the seventies), it was able to catch up and beat France (which starts a decade earlier), and is now the third country when it comes to the overall number of launches. But still far behind the first two countries (USA & Russia).

# Thank You

To view the python code used in this analysis, [click here](#).

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