

Naphon Santisukwongchot

Profile summary

Student

Thammasat business school
Business administration : Finance
Aug 2017 - May 2021

Present

Associate account manager

N-Squared eCommerce, Bangkok
Oct 2021 - May 2023

Seeking a career transition into data science. Excellent understanding and proficiency of platforms for effective data analysis, including Excel, Python, R, and SQL. Strong communication, organizational and analytical skills.

Technical strengths

Business Intelligence :	Looker, Power BI, Tableau
Data Analysis :	Pandas, NumPy
Data Visualization :	Matplotlib, Seaborn
Machine Learning :	Scikit-Learn
Microsoft Office :	Excel, PowerPoint, Word
Programming :	Python, R, SQL

Skills

- ◇ Attention to Detail
- ◇ Collaboration
- ◇ Problem Solving
- ◇ Regression , Classification, Clustering
- ◇ Business Acumen
- ◇ Critical Thinking
- ◇ IELTS 6

SpaceX Falcon 9 (1)

```
import pandas as pd
import matplotlib.pyplot as plt
import numpy as np
import seaborn as sns
```

```
df=pd.read_csv(dataset_part_2_csv)
df.head(5)
```

	FlightNumber	Date	BoosterVersion	PayloadMass	Orbit	LaunchSite	Outcome	Flights	GridFins	Reused	Legs	LandingPad	Index
0	1	2010-06-04	Falcon 9	6104.959412	LEO	CCAFS SLC 40	None None	1	False	False	False	NaN	
1	2	2012-05-22	Falcon 9	525.000000	LEO	CCAFS SLC 40	None None	1	False	False	False	NaN	
2	3	2013-03-01	Falcon 9	677.000000	ISS	CCAFS SLC 40	None None	1	False	False	False	NaN	
3	4	2013-09-29	Falcon 9	500.000000	PO	VAFB SLC 4E	False Ocean	1	False	False	False	NaN	
4	5	2013-12-03	Falcon 9	3170.000000	GTO	CCAFS SLC 40	None None	1	False	False	False	NaN	

Import library

◇ Import frameworks

pandas, numpy : Data manipulation

matplotlib, seaborn : Data visualization

◇ Perform EDA : df.head(), df.info(), df.describe

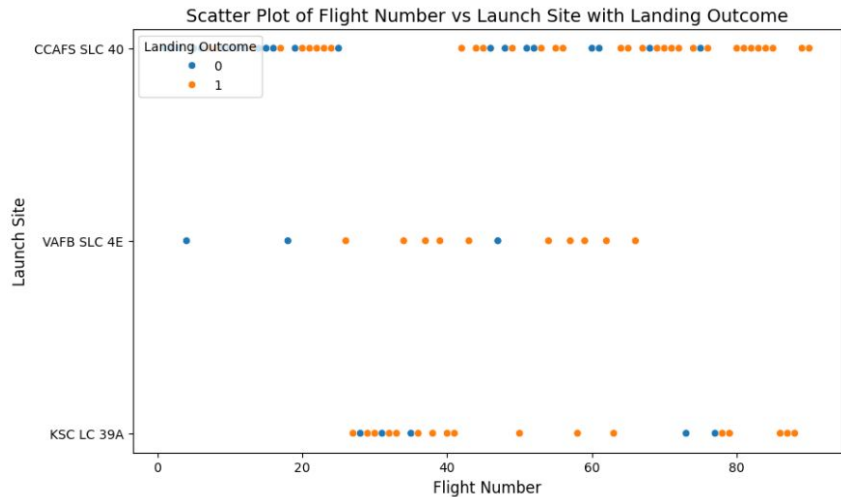
SpaceX Falcon 9 (2)

Exploratory data analysis

- ◇ Plot a scatter plot compared between 'FlightNumber' and 'LaunchSite'

```
plt.figure(figsize=(10, 6))
sns.scatterplot(data=df, x="FlightNumber", y="LaunchSite", hue="Class")
plt.title("Scatter Plot of Flight Number vs Launch Site with Landing Outcome", fontsize=14)
plt.xlabel("Flight Number", fontsize=12)
plt.ylabel("Launch Site", fontsize=12)
plt.legend(title="Landing Outcome", loc='upper left')

plt.show()
```



- ◇ CCAFS SLC-40 was the most frequently used launch site.

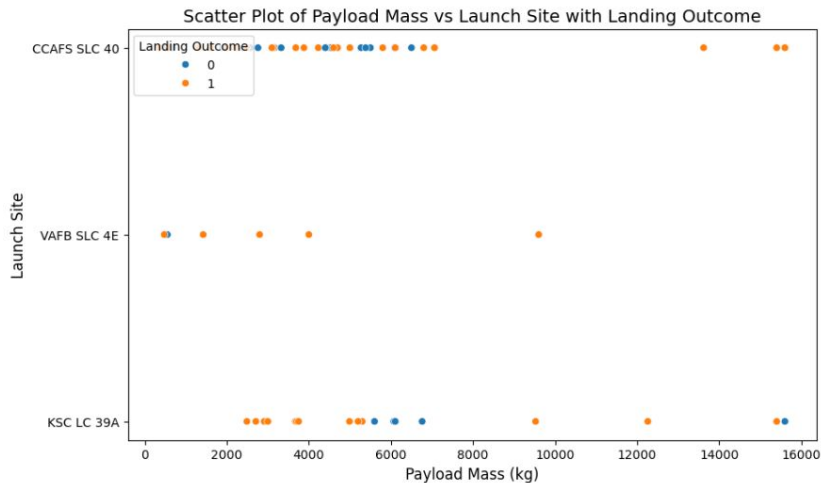
SpaceX Falcon 9 (3)

Exploratory data analysis

- ◇ Plot a scatter plot compared between 'PayloadMass' and 'LaunchSite'

```
plt.figure(figsize=(10, 6))
sns.scatterplot(data=df, x="PayloadMass", y="LaunchSite", hue="Class")
plt.title("Scatter Plot of Payload Mass vs Launch Site with Landing Outcome", fontsize=14)
plt.xlabel("Payload Mass (kg)", fontsize=12)
plt.ylabel("Launch Site", fontsize=12)
plt.legend(title="Landing Outcome", loc='upper left')

plt.show()
```



- ◇ There are no rockets launched for payload mass, greater than 10000, in VAFB SLC 4E.

SpaceX Falcon 9 (4)

```
orbit_success_rate = df.groupby('Orbit')['Class'].mean().reset_index()

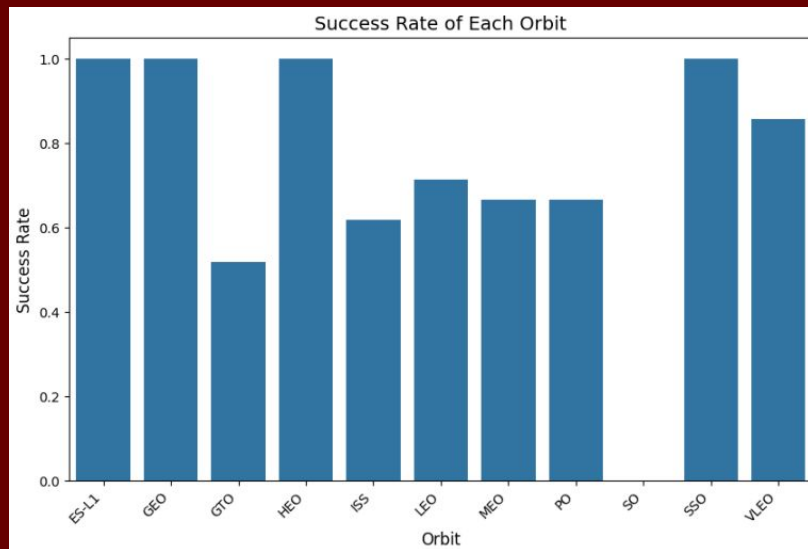
plt.figure(figsize=(10, 6))
sns.barplot(data=orbit_success_rate, x='Orbit', y='Class')

plt.title("Success Rate of Each Orbit", fontsize=14)
plt.xlabel("Orbit", fontsize=12)
plt.ylabel("Success Rate", fontsize=12)
plt.xticks(rotation=45, ha='right') # Rotate x-axis labels if needed

plt.show()
```

Exploratory data analysis

- ◇ Create bar chart of success rate across orbits
- ◇ ES-L1, GEO, HEO, and SSO showed the the highest success rate across orbits.



SpaceX Falcon 9 (5)

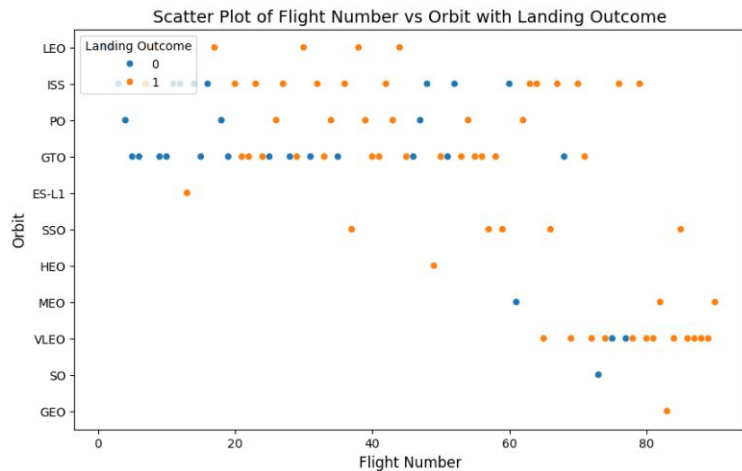
Exploratory data analysis

- ◇ Plot a scatter plot compared between 'FlightNumber' and 'Orbit'

```
plt.figure(figsize=(10, 6))
sns.scatterplot(data=df, x="FlightNumber", y="Orbit", hue="Class")

plt.title("Scatter Plot of Flight Number vs Orbit with Landing Outcome", fontsize=14)
plt.xlabel("Flight Number", fontsize=12)
plt.ylabel("Orbit", fontsize=12)
plt.legend(title="Landing Outcome", loc='upper left')

plt.show()
```



SpaceX Falcon 9 (6)

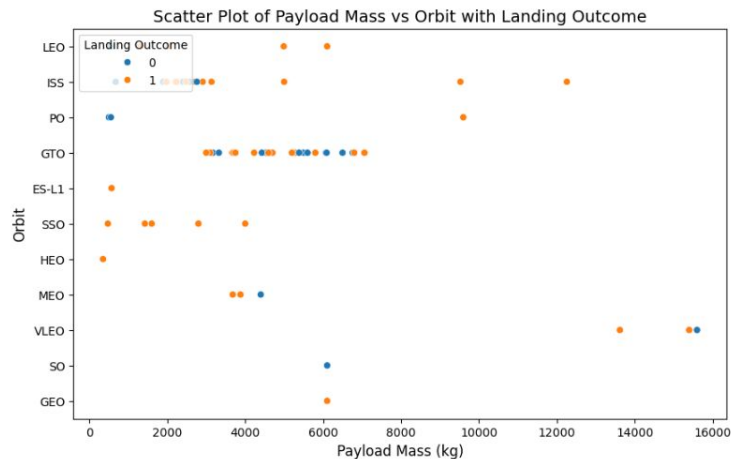
Exploratory data analysis

- ◇ Plot a scatter plot compared between 'PayloadMass' and 'Orbit'

```
plt.figure(figsize=(10, 6))
sns.scatterplot(data=df, x="PayloadMass", y="Orbit", hue="Class")

plt.title("Scatter Plot of Payload Mass vs Orbit with Landing Outcome", fontsize=14)
plt.xlabel("Payload Mass (kg)", fontsize=12)
plt.ylabel("Orbit", fontsize=12)
plt.legend(title="Landing Outcome", loc='upper left')

plt.show()
```



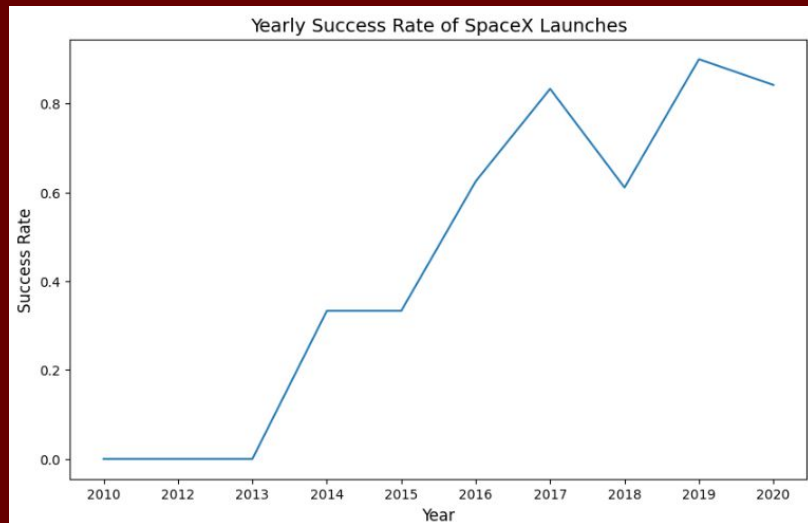
SpaceX Falcon 9 (7)

```
year=[]  
def Extract_year():  
    for i in df["Date"]:  
        year.append(i.split("-")[0])  
    return year  
Extract_year()  
df['Date'] = year
```

```
yearly_success_rate = df.groupby('Date')['Class'].mean().reset_index()  
  
plt.figure(figsize=(10, 6))  
sns.lineplot(data=yearly_success_rate, x='Date', y='Class')  
  
# Customize the plot  
plt.title("Yearly Success Rate of SpaceX Launches", fontsize=14)  
plt.xlabel("Year", fontsize=12)  
plt.ylabel("Success Rate", fontsize=12)  
plt.xticks(yearly_success_rate['Year'], rotation=45)  
  
plt.show()
```

Exploratory data analysis

- ◇ Create line chart between 'Year' and 'Average Success Rate'



Contact

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<https://github.com/naphon1999>

<https://www.datacamp.com/portfolio/naphon1999>

<https://drive.google.com/drive/folders/1-3x-Xmho03z5u3PA6VKZi2-nY90oixK?usp=sharing>

Data Source

https://drive.google.com/file/d/1arTdtj3HaGGeVVU6CgdzYKqkC__VaFk/view?usp=drive_link

Certifications & Developments

Data Science Bootcamp 10 :

DataRockie

Data Analyst in SQL & Python :

DataCamp

Google Advanced Data Analytics :

Google

IBM Data Science:

IBM

Machine Learning :

DeepLearning.AI