## **PostLab**

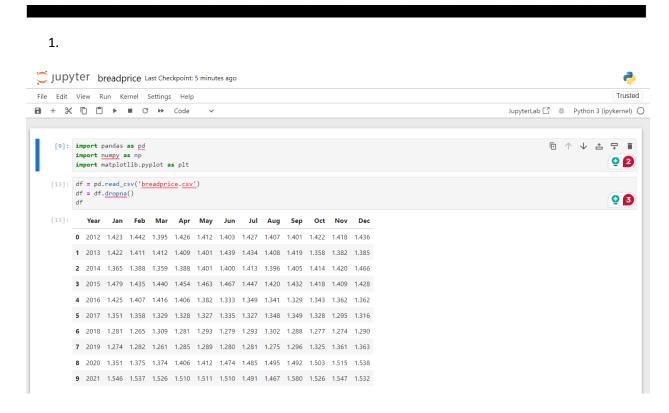


Fig 1: loading dataset: breadprice.csv

In figure 1 we use jupyter notebook for us to perform the postlab exercise, for this part we input command such as: import pandas as pd and import numpy as np for us to load the given dataset we have. Then we use this syntax to load and clean our data:

```
df = pd.read_csv('breadprice.csv')
df = df.dropna()
df
```

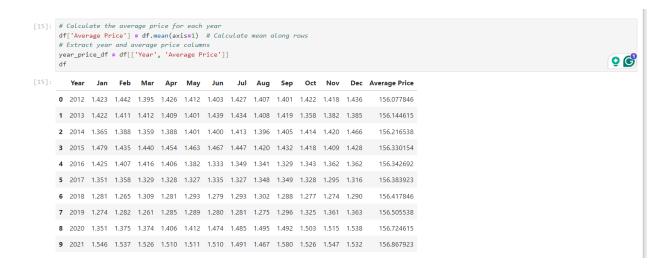


Fig 2: calculating average price for each year

In figure 2, it shows the syntax allows to calculate mean along rows: df['Average Price'] = df.mean(axis=1) for us to determine the calculations of average price for each year.

```
# PLotting
plt.figure(figsize=(10, 6))
plt.plot(year price_df['Year'], year_price_df['Average Price'], marker='o')
plt.title('Average Price of Bread Each Year')
plt.xlabel('Year')
plt.ylabel('Average Price')
plt.grid(True)
plt.xticks(year_price_df['Year'])
plt.xticks(rotation=45)
plt.tight_layout()
plt.show()
```

Fig 3: code for plotting

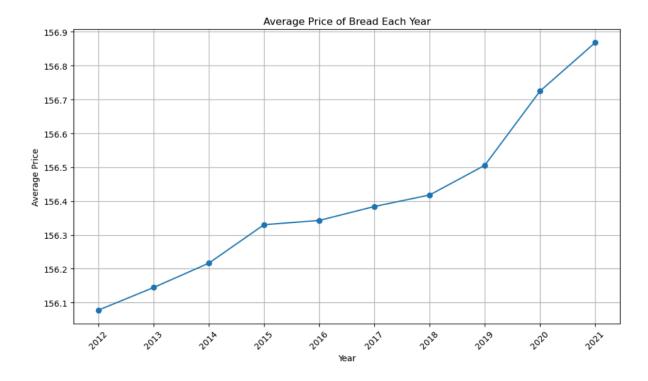


Fig 3.1: Line plot of the average price for each year

For figure 3 and 3.1, it shows the code and the line plot that allows us to shows the line plot of the average price for each year.