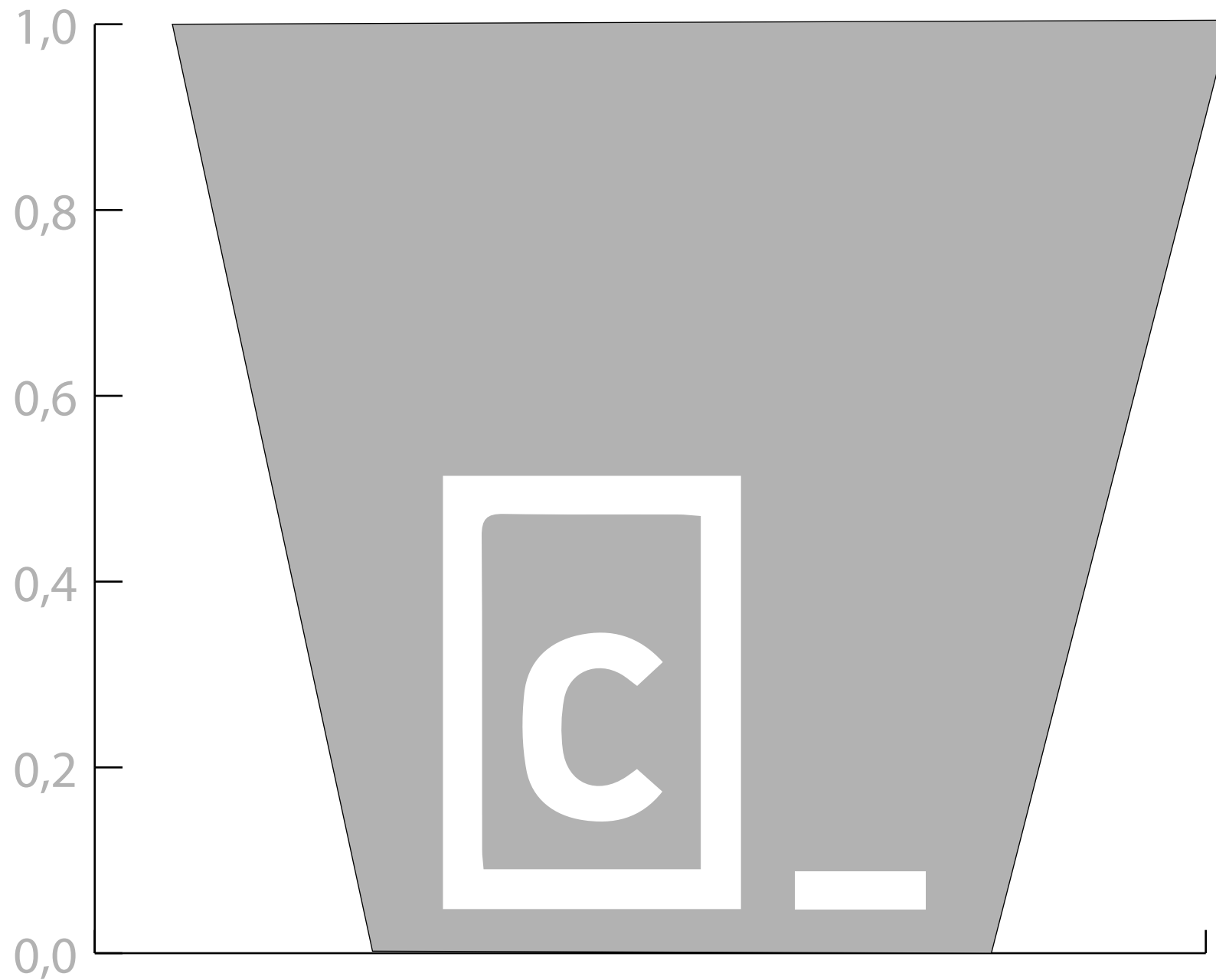# Data Visualization with Python

Visualizing
The
Netflix
Stock
Profile
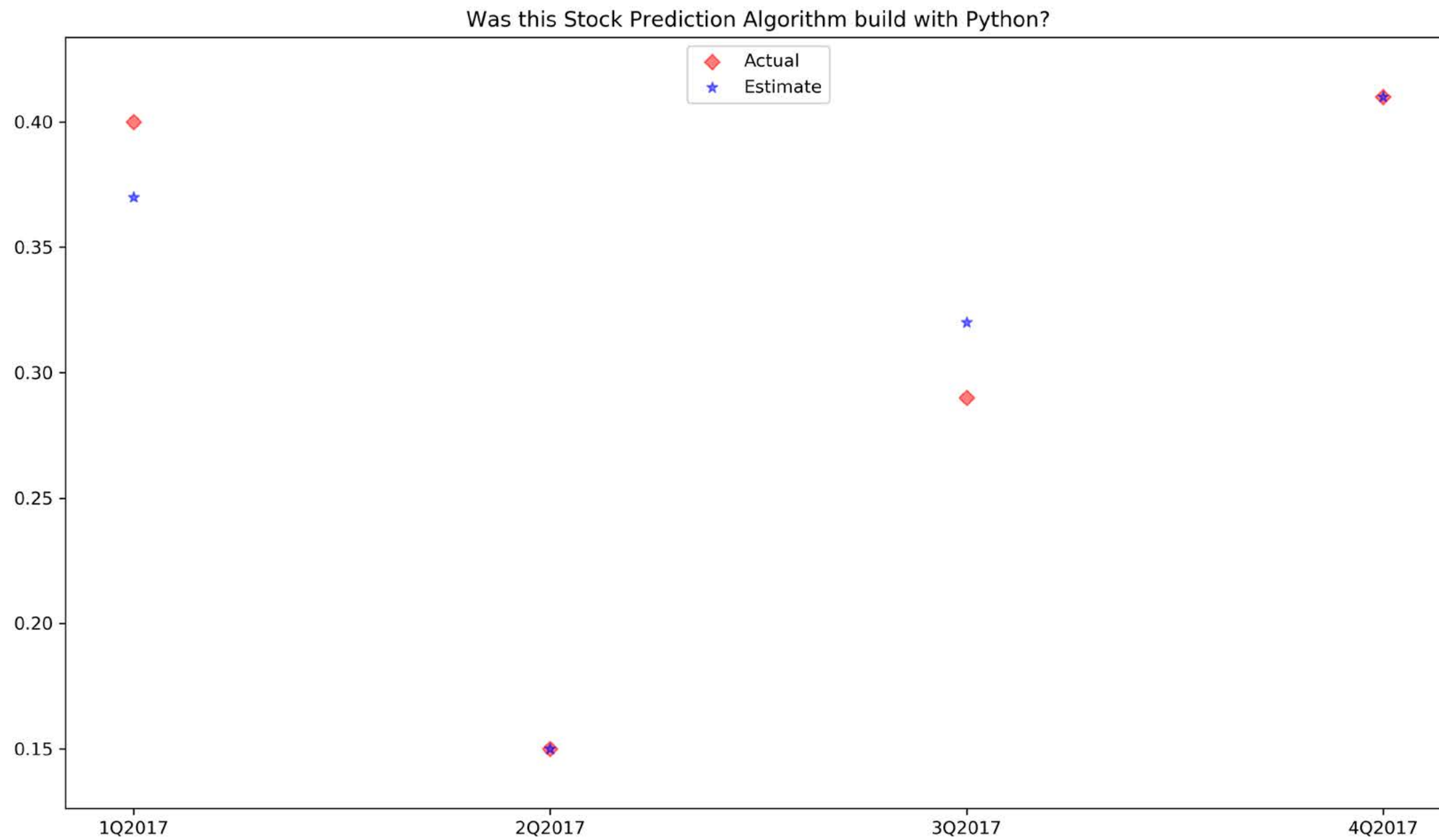
Sep 20, 2018
mike@crossway.nl

Four Visualizations of Netflix Shares for the Stock Profile team.

* The distribution of the stock prices for the past year
* Netflix's earnings and revenue in the last four quarters
* The actual vs. estimated earnings per share for the four quarters in 2017
* A comparison of the Netflix Stock price vs the Dow Jones Industrial Average price in 2017

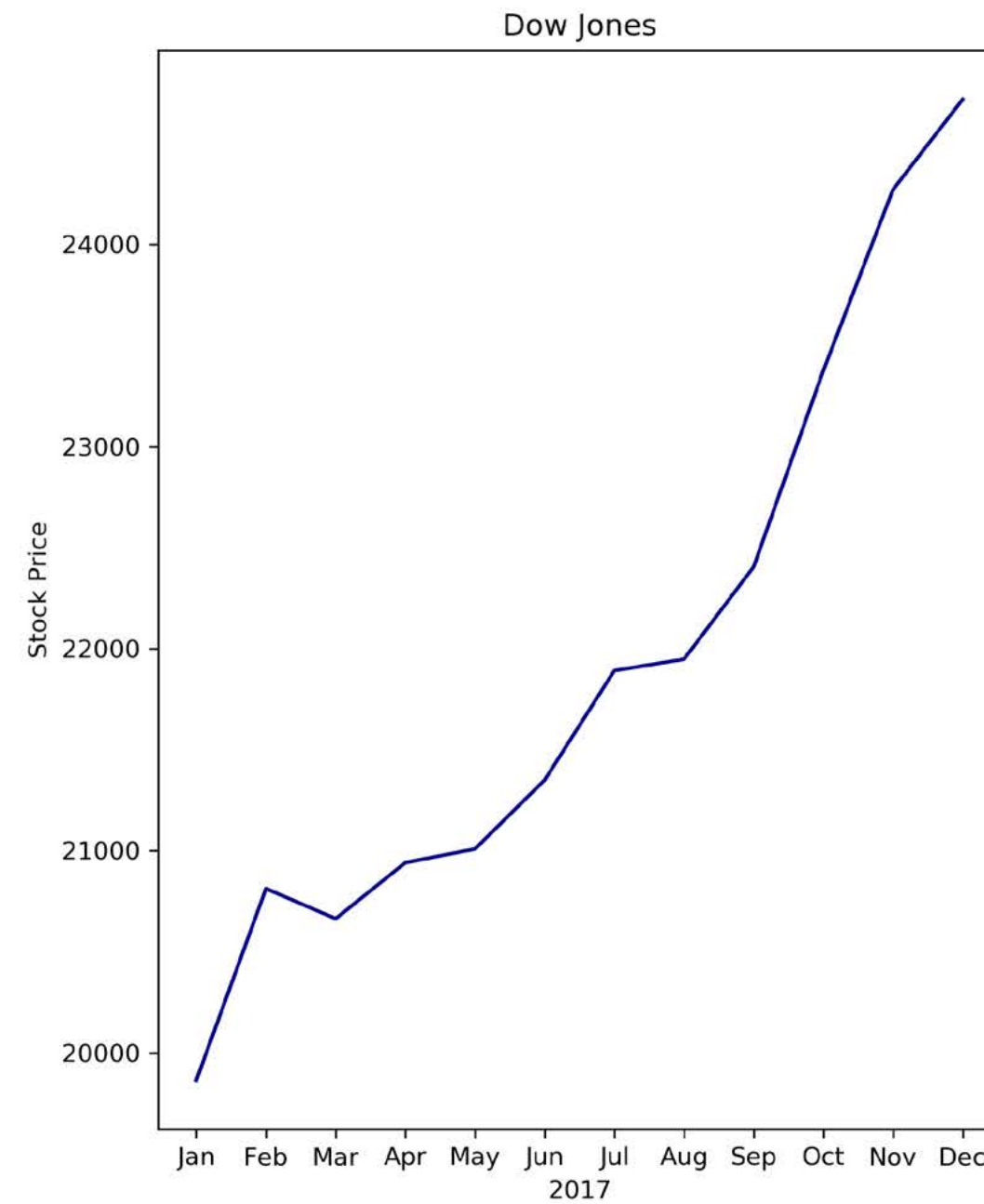Distribution of 2017 Netflix Stock Prices by Quarter
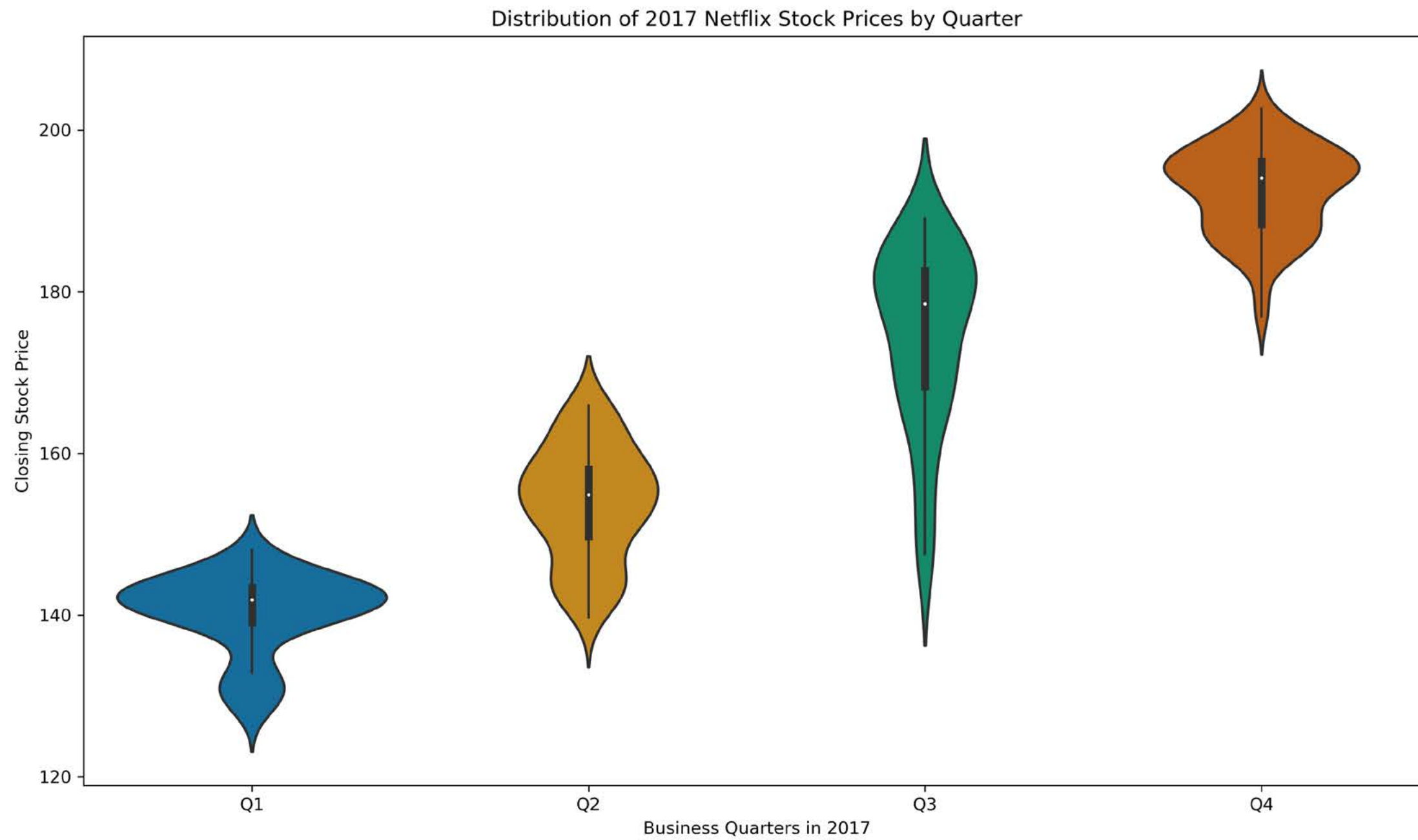
Stock prices flucutated the most in the third quarter.

Was this Stock Prediction Algorithm build with Python?

In the second and last quarter the actual and estimated earnings were the same.

Netflix | Income v.s. Profit
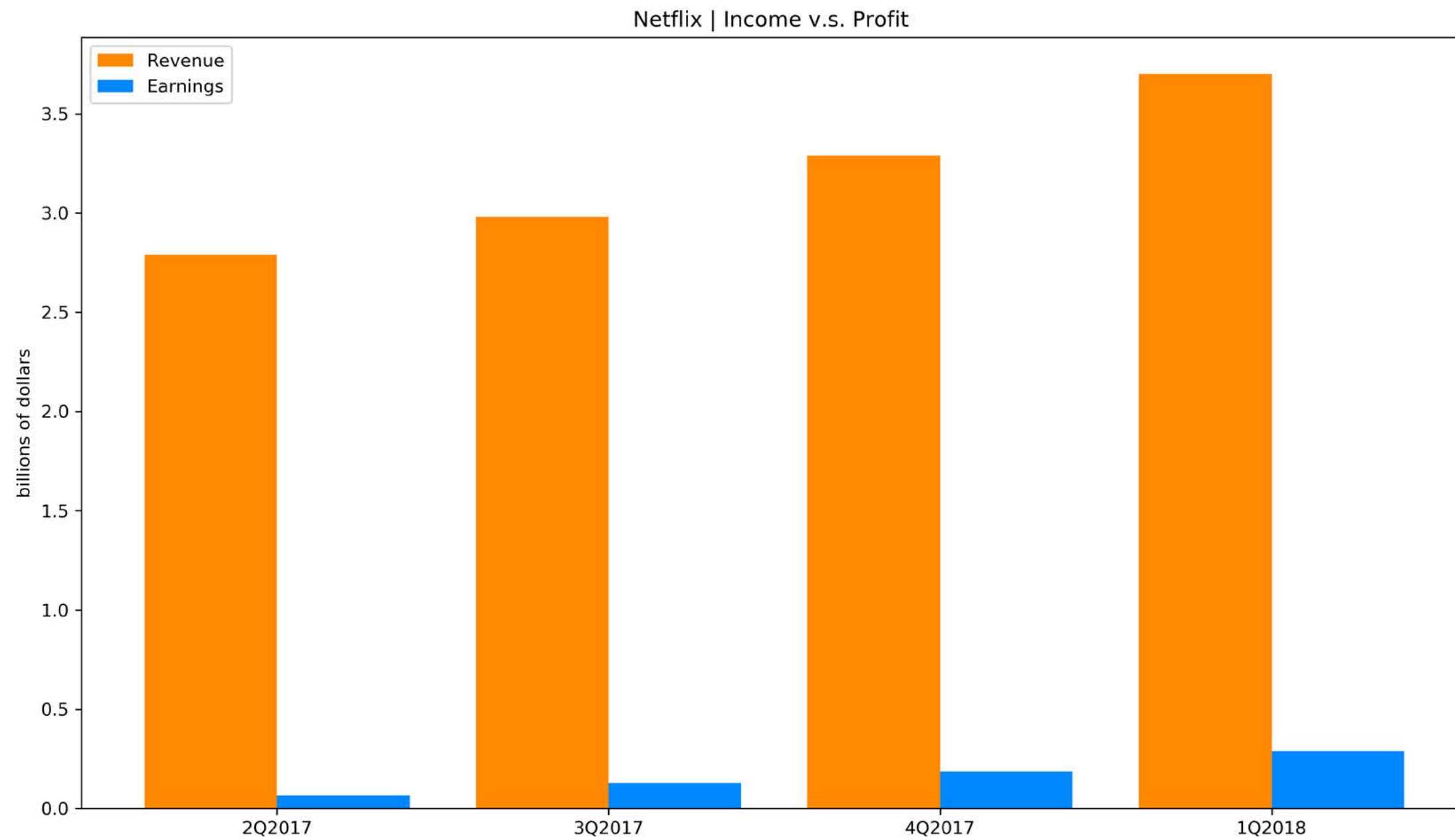
Profit is going up. Buy shares!
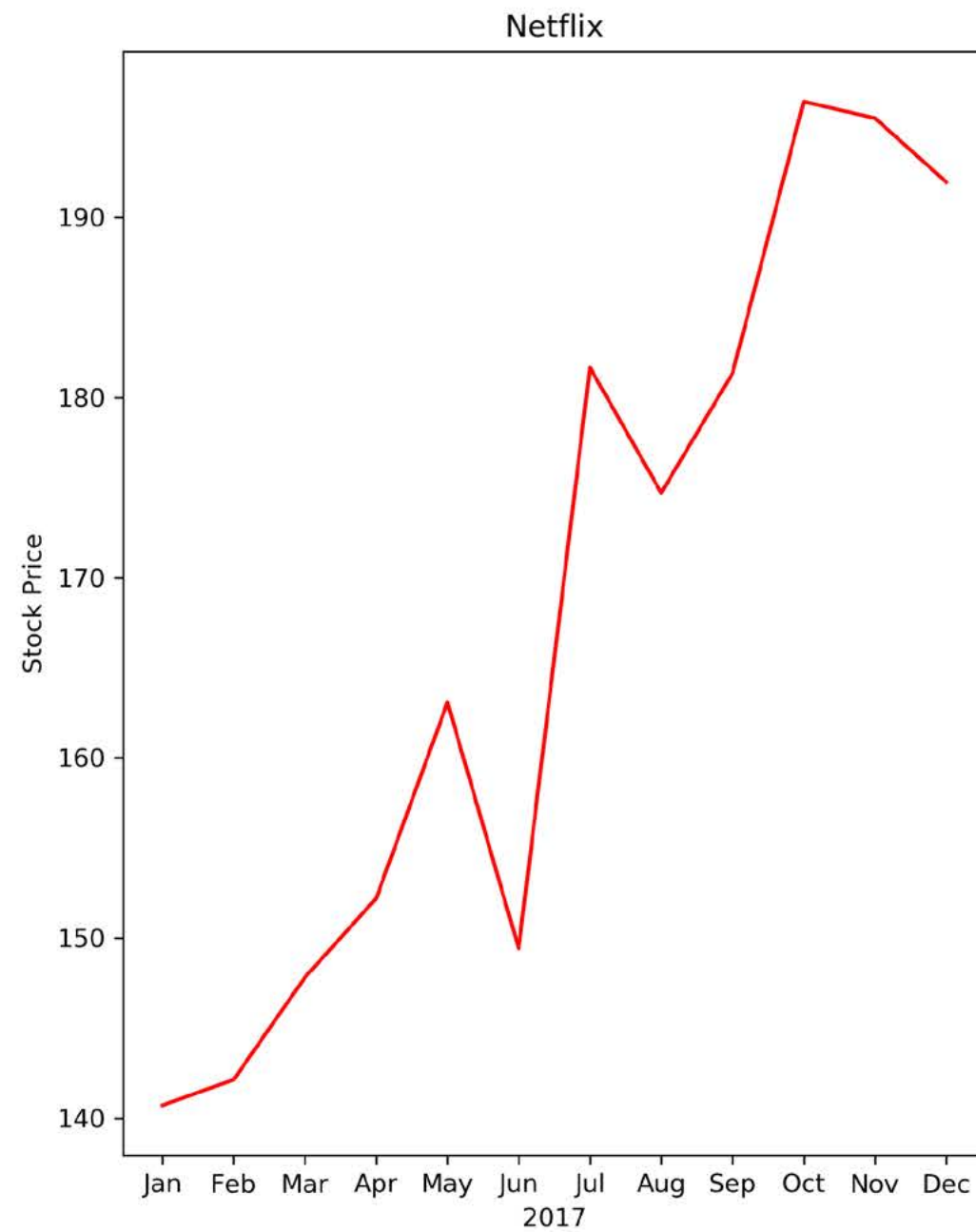
Volatility of Netflix was considerably larger but the Dow rose 20% and Netflix 40%

```python
import pandas as pd
from matplotlib import pyplot as plt
import seaborn as sns


netflix_stocks = pd.read_csv("NFLX.csv")
dowjones_stocks = pd.read_csv("DJI.csv")
netflix_stocks_quarterly = pd.read_csv("NFLX_daily_by_quarter.csv")

netflix_stocks.rename(columns={"Adj Close": "Price"}, inplace=True)
dowjones_stocks.rename(columns={"Adj Close": "Price"}, inplace=True)
netflix_stocks_quarterly.rename(columns={"Adj Close": "Price"},
inplace=True)

plt.figure(figsize=(14, 8))
ax = sns.violinplot()
sns.violinplot(data=netflix_stocks_quarterly, x="Quarter", y="Price")
ax.set_title("Distribution of 2017 Netflix Stock Prices by Quarter")
ax.set_ylabel("Closing Stock Price")
ax.set_xlabel("Business Quarters in 2017")
sns.set_palette("colorblind")
plt.savefig("file0.png")
plt.show()
```