C4 Data Science & Machine Learning: Prices of Gold(XAU) Spec Kacper Krakowiak (C00271692)

**Goal:** the goal is to visualize the average monthly prices of gold on a graph and develop a line of best fit to help predict future price of gold

**Dataset:**

* ‘XAU\_1Month\_data\_2004\_to\_2024-09-20.csv’ obtained from [Kaggle.com](https://www.kaggle.com/datasets/novandraanugrah/xauusd-gold-price-historical-data-2004-2024?select=XAU_1Month_data_2004_to_2024-09-20.csv)
* Contains 7 columns and 245 Rows for each months sinces: 2004-06-01 till: 2024-09-01

**Pre-Processing:** The data has the following columns: Date, time, open, high, low, close and volume. We are only interested in the monthly prediction based on the sell price so we only use the Date and Close price to plot our 2D graph. From 7 columns I reduced down to 2. Attempted to format the date column but couldn’t quiet get it. The data does fit the graph but just isnt fully formatted on the x axis correctly.

**Tools and libraries:**

* Python
* Jupyter Notebook
* pandas
* numpty
* matplotlib
* sklearn