

Technical Programming II

Practical 9: Analysing Gold Prices over Time

Required Datasets:

1. gold.csv

Questions

2. Read the data from the CSV file into a DataFrame called gold.
3. Run the info() method, and note the data types of the two columns.
4. Convert the Date column to the DateTime data type. Then, display the first five rows of data, and note that the dates are for the first of each month starting in 1950.
5. Plot the data with a Pandas line plot.
6. Index the data on the Date column. Then, generate time periods for the first day of each year from 1950 to 2020.
7. Reindex the data using the new time periods, and display the first five rows again to see that there is just one row for each year.
8. Plot the reindexed data with a Pandas line plot.
9. Resample the data to a quarterly frequency and plot the data again.
10. Resample the data to a yearly frequency and plot the data one more time.
11. Plot the rolling mean for the data using a Pandas line plot. Experiment with different values for the window parameter.

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