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COS30018

Weekly Report

Task B.6

For this assignment, at first im having trouble with running the ARIMA function and the chart would not show up also it can’t even run the SARIMA function at all. After adding a fallback for NaN values in y\_arima to make sure the MSE can be calculated.

I replaced arima\_forecasts.loc[pred\_date] with arima\_forecasts.get(pred\_date, np.nan). The .get() method returns np.nan if the date isn’t found in arima\_forecasts, avoiding a KeyError.

Then if forecast\_value is NaN (checked with pd.isna()), y\_arima[i, j] is set to actual\_prices[i, j] instead. This ensures y\_arima always contains valid numbers.

I will add all the outcome into a folder for this task.

A screenshot of a black price prediction form

AI-generated content may be incorrect.I also build a web interface for user to input the date and getting result on the website

A screenshot of a computer

AI-generated content may be incorrect.

A screenshot of a test results

AI-generated content may be incorrect.

A graph with red and blue lines

AI-generated content may be incorrect.

A graph of candlestick chart

AI-generated content may be incorrect.

A graph of different colored bars

AI-generated content may be incorrect.