

Nguyen Ngoc Gia Thinh

Student ID: 103809954

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.