

Lab 02 - Time Series Forecasting

Introduction

In this lab you will get some hands-on experience in time series forecasting. We are using the popular machine learning competition platform Kaggle and will be participating in an ongoing competition. However this competition does not have any cash rewards.

Instructions

- Please create a kaggle account with the name UOM_<<your_registration_number>> This is the same account you used for the CS3111 mini-project.

Task 1

- Follow [this tutorial](#) to get some coding experience for time series analysis

Task 2

- Please go to the following website to enter the competition:
 - <https://www.kaggle.com/competitions/store-sales-time-series-forecasting/overview>
 - Everything you need to know about the competition would be given there.
- This Kaggle competition is an ongoing competition. But for this lab, we have a strict deadline. The results you achieve by the submission deadline of the lab would be considered as your final submission.
- Please prepare a submission as described in the following section

Your Lab Submission

This is based on Task 2 mentioned above. Prepare a report of **maximum 3 pages**. The report should include the following

- Report the score given by the leaderboard (include a screenshot) at the top of the report
- Briefly describe your solution
- What are any data cleaning and preprocessing steps you did?
- Report any additional evaluation metrics you find suitable based on your validation data (you can define a subset of the training data for validation)
- Describe one alternative solution briefly
- Describe any issues with your solution and how to improve it