

1.Github link: <https://github.com/dingkk123/NYCU2023-machine-learning>

2.Reference: [TPS-Aug22 9th solution | Kaggle](#)

3.Brief introduction:

我是用 **logistic regression** 來當作我的 **model**，還有使用 **k-fold** 來切割資料。

4.Methodology:

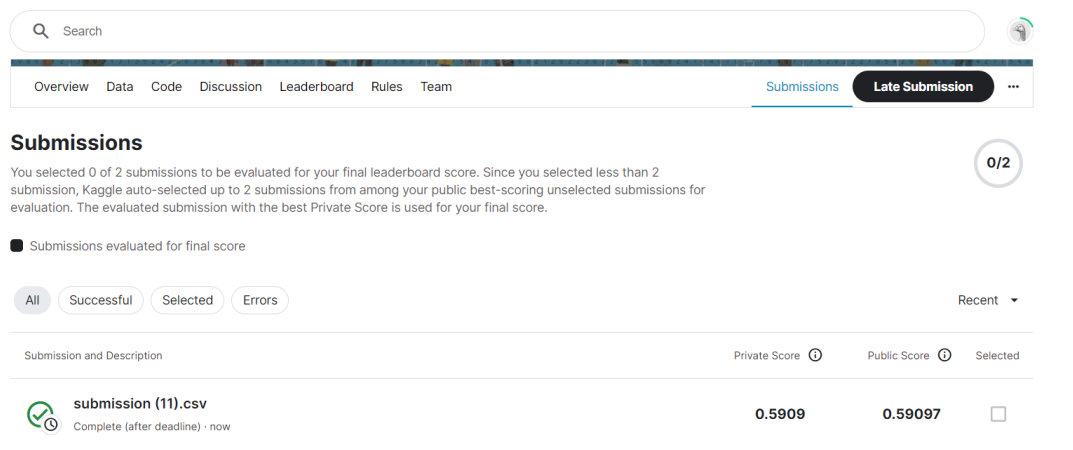
**Data-preprocessing:**我使用 **HuberRegressor**，還有 **KNNImputer** 來處理資料中有異常部分，因為他的 **input** 有一些缺失值，需要用這兩個方法來補差值。

**Model architecture:**在進行 **logistic regression** 前，會先用 **standardscaler** 將資料進行預先處理，並且整個操作分成兩種，我這兩種分別 **select** 了兩種不同的 **feature** 來進行 **train**，並且將 **feature** 存起來。

5.Summary:

這次的作業蠻難的，需要花一定的時間才能將 **model** 決定出來，並且需要去處理 **input** 的 **data** 來提高 **private score**，然後需要去 **discussion** 去看其他人的一些方法來了解怎麼讓 **score** 提高，但是可以透過這次的作業來更了解機器學習的一些實作。

6.Result screenshot:



The screenshot shows the Kaggle Submissions page for a competition. At the top, there is a search bar and navigation tabs: Overview, Data, Code, Discussion, Leaderboard, Rules, Team, Submissions (active), and Late Submission. Below the tabs, the 'Submissions' section is displayed. It includes a message: 'You selected 0 of 2 submissions to be evaluated for your final leaderboard score. Since you selected less than 2 submission, Kaggle auto-selected up to 2 submissions from among your public best-scoring unselected submissions for evaluation. The evaluated submission with the best Private Score is used for your final score.' There is a '0/2' indicator in a circle. Below this, there are filters: 'Submissions evaluated for final score' (checked), and tabs for 'All', 'Successful', 'Selected', and 'Errors'. A 'Recent' dropdown is also present. The main table has columns: 'Submission and Description', 'Private Score', 'Public Score', and 'Selected'. One submission is listed: 'submission (11).csv' with a Private Score of 0.5909 and a Public Score of 0.59097. The status is 'Complete (after deadline) - now'.

Submission and Description	Private Score	Public Score	Selected
submission (11).csv Complete (after deadline) - now	0.5909	0.59097	<input type="checkbox"/>

7.feature\_list\_link:

[https://drive.google.com/drive/folders/1HaVjuY9tNaVWdhswES8mO5QCzx4QRYQo?usp=share\\_link](https://drive.google.com/drive/folders/1HaVjuY9tNaVWdhswES8mO5QCzx4QRYQo?usp=share_link)