Machine Learning Final Report

**Format:**

規定最少6頁A4長度(5頁報告 + 1頁的專案開發個人心得)，以pdf格式繳交，文字字型12，單行間距。

A minimum of 6 pages of A4 length (5 pages of report + 1 page of personal experience in project development) is required, submitted in pdf format, with a font size of 12 and single-line spacing.

**Content include：**

1. Project Title
2. Motivation and Goal
3. Related Work/Market Survey
4. Solution Introduction
   1. Solution Architecture (Including data preprocessing and model architecture)
   2. Detail of data prepocessing and the model.
5. Experiment Result
6. Introduce dataset
7. Introduce experiment environment
8. Evaluation of the proposed solution and comparison with other models.
9. The difficulties of this project and why it is the most difficult part?
10. The project meeting picture
11. Personal experience in project development (Each team member has to write)
12. Team member contribution ratio (Each team member has to write)

Machine Learning Final Report

Anti-Money Laundering

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1. Motivation and Goal

洗錢在近幾年來一直都是一個很棘手的問題，我們相信這個問題如果處理得當能有效增進社會安全、打擊非法營利活動等，如果處理不當、放任不管則會漸漸導致我們的社會維安低落。

過去銀行採用大量的人力、時間以及金錢來人工檢查某筆交易是否為洗錢，銀行方投入大量資源卻效率低落，客戶方則時不時被誤會成洗錢而被客服騷擾。

因此我們想利用機器學習的方式，訓練出一個可以找出真正洗錢行為的模型，降低人工錯誤的同時也節省下許多資源，更能提升客戶體驗，最終目標則是打擊非法活動增進社會穩定。

1. Related Work/Market Survey
2. Survey the related work of this topic. (Papers or the Products)
3. What are the shortcoming of current works?
4. Use a table to explain the difference among your work and current works.
5. Solution Introduction
6. Solution Architecture (Including data preprocessing and model architecture)
7. Detail of data prepocessing and the model.
8. Experiment Result
9. Introduce dataset
10. Introduce experiment environment
11. Evaluation of the proposed solution and comparison with other models.
12. The difficulties of this project
13. Explain the difficulties
14. Why it is the most difficult part?
15. How do you solve it?
16. The project meeting picture
17. Personal experience in project development (Each team member has to write)
18. Team member contribution ratio (Each team member has to write)

- Each team member writes down their own and team member's contribution ratio so the result can be different.

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Student ID | Work | Contribution Ratio |
|  | 100000 | Collect data and do some data preprocessing | 30% |
|  | 100001 | Build model | 20% |