Research Project Progress Report Week [2] – SIT723

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| **Student Name:** | Oscar Wu |
| **Supervisors’ Names:** | Daniel Ma |
| **Project Title:** | Discovering Covid-19 Misinformation and its effect |
| **SIT723 Target Grade:** | HD |
| **Overleaf Project Link:** | [Overleaf](https://www.overleaf.com/read/pbmgdmgghsnq) |
| **Project Folder Link:** | [Project Folder](https://github.com/wuyoscar/SIT723-Reserach-Project-A) |
| **Worklog:** | 40.3333333 hrs [Worklog](https://github.com/wuyoscar/SIT723-Reserach-Project-A/blob/master/Unit%20Doc/ontrack_1.1p/1.1P-resources/1.1P-Worklog_Template.xlsx) |
| **Project Plan** | |
| **Summary of the work planned with your supervisor:** | **Week1:**  We decided to conduct research about Media Bias. Because MIT publish a paper named “Machine-Learning Media Bias”, which we quite like its idea and contribution. As a result, I spent much time on methodology of this paper (SVD, PCA, Bias Space). Media bias often relate to social science. It is necessary to get familiar with Qualitative Method, such as Content Analysis.  **Week2:**  Daniel and I further discussed how to implement Method using in “Machine-Learning Media Bias” to Covid-19 Misinformation. We have several Research Question:   * How to compare, contrast, evaluate, define bias in Covid-19 News? * What is difference between Covid-19 fake News and Covid-19 Bias? * How the public’ emotion (especial negative emotion) different when interacting with Covid-19?   As a result, I searched a lot of papers (see evidence attached below) and used notetaking matrix to design research. |
| **Summary of the work done:** | 1. Initialled Git Repo and Overleaf, all necessary files in this project 2. Upskilling on NLP, Python, Deep Learning, BERT, LaTex 3. Learnt how to use Deakin Library Tool, Such as Scopus, IEEE Xeploer, *Nvivo2, Zotero* 4. *Using NoteTaking matrix to summarize finding of literature review*   *Evidence find below attached* |
| **Next steps:** | Next week is week 3. I am planning to have these to do task:   1. To find datasets or collecting datasets relate to my project 2. To learn Poisson Distribution and SVD, and PCA 3. To Learn NLP using Deep Learnig 4. To continue to search literatures |
| **Overall project progress:** | [Add comments on the project backlog, i.e., your overall progress in the project for achieving the final results]  At this moment, a big challenge is that getting familiar with Classical and Novel technique relate to my project.  So far, I have set up all working environment and my supervisor also suggested a good direction to conduct research.  Furthermore, I located a few research groups which conduct similar research in my project area. Their contribution and conclusion has a good influence on mine.  Finally, Daniel Ma and I came up with RQ. I may continue to working each point mention above. |

# Reflection against Assessment Rubric

Add comments and evidence against your target grade for each criterion in the assessment rubric. You should also provide evidence (relevant to your target grade) on how you meet all the relevant criteria for that grade based on your progress so far.

*In case you have not started work on a specific criterion, e.g., research evaluation, leave it blank.*

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| **Your reflection on work done so far against the assessment rubric criteria** | |
| **Literature Review** | I have searched some papers which contribute to my project.   * A common limitation in Bias detection around to Media Bias. * Only a few researches is about Covid-19. * And there is clear explanation how bias and fake in views of content instead of Machine. * NLP did not perform very well in Bias detection and fake news detection |
| **Technical & Academic Writing** | [Add your comments, grade and relevant evidence here] |
| **Research Design** | [Add your comments, grade and relevant evidence here] |
| **Project Management** | * I used Notion to maintain project meeting notes and Ideas I have * I planned my project in details * I also use Trello card to mange my project |
| **Artefact Development** | [Add your comments, grade and relevant evidence here] |
| **Research Evaluation** | [Add your comments, grade and relevant evidence here] |
| **Research Dissemination** | [Add your comments, grade and relevant evidence here] |
| **OVERALL** | Please add your overall review and the final grade according to you. |

## Additional Evidence

Add any evidence that supports your case for your target grade. For example, screenshot of git commits log, screenshot of your cloud storage folder, progress in your research report or artefact development, or a visual chart to illustrate project progress so far.

*This is your research project, and you need to demonstrate (****with evidence****) how you meet criteria for a certain grade. Make this project report easy to read and help anyone reading this report assess, with least effort, the progress you have made.*