

# AI6101 Mini-Project Briefing

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# Main Goals

- To design an application that involves some AI techniques and solves a real-world problem of your choice.
- The problem scenario can be a business challenge, a technical problem, or a societal issue.
- In your solution, you are required to consider at least one of the Responsible AI Practices taught in class, and explain in your system design how that aspect has been addressed. Suggested Responsible AI Practices include 1) **interpretability**, 2) **fairness**, and 3) **privacy preservation**.

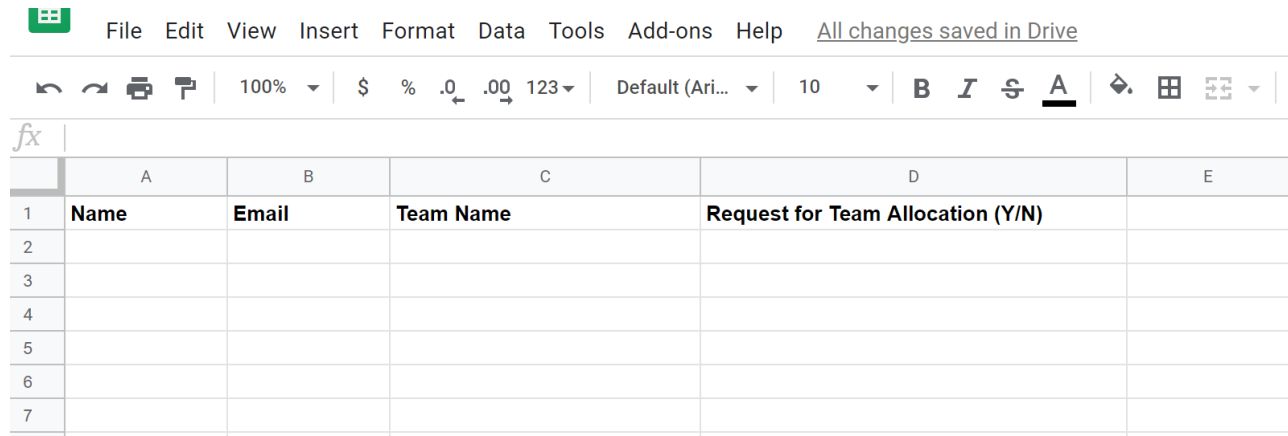
# Sample Projects

- The following videos can serve as examples to help you brainstorm:
  - Federated Vision (privacy preservation):  
<https://youtu.be/yfiO3NnSqFM>;
  - Shareable Bike Rebalancing (fairness and interpretability):  
[https://youtu.be/OGj5z5\\_EH6A](https://youtu.be/OGj5z5_EH6A);
  - Smart Workforce Engagement (fairness, interpretability, and privacy preservation): <https://youtu.be/vV3RsdCCETw>.

# Team Formation

- Work in a group of **at most 6** people
- You can opt to form your own groups, or let the course instructor allocate a group for you.
- Online Google Docs for Team Formation:  
[https://docs.google.com/spreadsheets/d/1oyCTVuxuwMFYvfJPa\\_rxilCHAhipO-qFvRIQkmoVSdE/edit#gid=0](https://docs.google.com/spreadsheets/d/1oyCTVuxuwMFYvfJPa_rxilCHAhipO-qFvRIQkmoVSdE/edit#gid=0)
- Do it before the end of Friday in **Week 10**.

# Team Formation



The image shows a Google Sheets spreadsheet titled "Team Formation". The interface includes a menu bar (File, Edit, View, Insert, Format, Data, Tools, Add-ons, Help) and a status bar indicating "All changes saved in Drive". The toolbar shows various editing and formatting options. The spreadsheet has five columns labeled A through E. Column A is labeled "Name", Column B is labeled "Email", Column C is labeled "Team Name", and Column D is labeled "Request for Team Allocation (Y/N)". Column E is currently blank. The rows are numbered 1 through 7. The first row (row 1) contains the headers for columns A through D. The subsequent rows (rows 2 through 7) are empty, providing space for data entry.

	A	B	C	D	E
1	Name	Email	Team Name	Request for Team Allocation (Y/N)	
2					
3					
4					
5					
6					
7					

- if you know who you are going to form a team with, please enter your name, email and the name of the team you will join, and indicate “N” under the “**Request for Team Allocation (Y/N)**” column.
- If you need the course instructor to help you find a team, please enter your name, email and indicate “Y” under the “**Request for Team Allocation (Y/N)**” column. In this case, please leave the “**Team Name**” blank.

# Your Deliverables

- A final report of no more than 10 pages (A4 size pages, with Arial font size 10 and reasonable margins) including all figures, tables and references.
- Your report must cover the following topics:
  - i) Introduction,
  - ii) Application Description,
  - iii) Use of AI Technologies, and
  - iv) Responsible AI Practices Addressed.
- The report is to be submitted before the end of **Friday in Week 14** (midnight).
- Name your report as *<team name>-final-report.docx*
- Each team should select a team member to send the report to my email: han.yu@ntu.edu.sg

# Assessment Criteria

Item		Percentage of Mini-Project Mark
Final Report	Originality of Design	25%
	Quality of Design	25%
	Responsible AI Practices included (RAIP)	25%
	Clarity of Design	25%
Total		100%

- This mini-project will constitute **30% of the total coursework marks** for AI6101.
- A bonus mark of up to 10% could be awarded on a case-by-case basis if your solution successfully addressed more than one aspect of RAIP.
- Your final project mark will still be capped at 100% even if the total mark and the bonus mark exceed 100%.

**Good Luck!**

Thank you