Meeting with David 28/08/24

- Discussing assessment feedback on forms & other assessment items
- Plans for future and finalising how the rest of semester will look
- Discussing experiments, wrote report found four things to give you what David needs
 - o What's important is realisation, understanding & reflection
 - What David would look for is the ability to critically reflect on what has happened and will be done differently – hallmark of critical thinking
- Homework looks at Engineering Reasoning book by David create frameworks that help us think critically about a range of things
 - If we want to reflect on deliverables, there are intangible deliverables that need to be called out – David finds it valuable to have people to talk with about the issue
- Minimise greedy allocation
 - What really are we trying to optimise
 - o Considerations?
 - Fairness (favours nor disfavours everyone)
 - maximise the minimum benefit
 - Align with motivations where possible
 - fit between capability & needs
- Algorithm to identify good pairings
 - o Algorithm is not issue but can't use what given
 - o Human machine teaming synergistic relationship is not front of mind
 - Looking at how to encourage that
- Representing a pairing
- Graphically visualising large dataset and options
 - Comes a point where one of limitations is looking at half the amount of data

Overall feedback

- Intermediate stage of making sense of our observations
 - o Conduct experiment, make sense of observations, draw conclusions
- Suggests of making sense of our observations and salient features
- Don't want to lose sight of value of experiment we've conceived that has very extreme value of intellectual property
- Not aware or thinking deliberately of good things think of the 'why?'
- "Found a way to create harmony with the operational benefits" encourages us to call that out
- Make section headings much more informative Show me the numbers book table of contents with extra information consider section headers that give the reader knowledge of what's in the heading e.g. 'Introduction: the challenge of allocating whatever' maximise engagement
 - o Employ logical flow of idea at a high-level structure
- SCALABILITY?
- Doesn't want four extremely different looking reports as it's hard to assimilate, wants consistency in the reports
- Implement things we research if we have time as an accompaniment to the report to provide simple demonstrations
 - o Good idea to have report and demonstration as all contained
- Github to handover the work
 - handed in a way someone can use and organised/presented with handover in mind
 - o how to provide things without compromising any problems
 - o Demonstrate capabilities in IT
- Leave time to explore more things that David may have
- Idea 1: Scale each benefit by maximum benefit of each row, so that they're equal
 does it have any pathologies? b(t.p) -> b(t.p)/max b(t.p)
- Idea 3: Sweep through lambda b = bimp (bfit + lambda bpref)
- How can we explore stable pairings