

# Student Allocation LLM Project

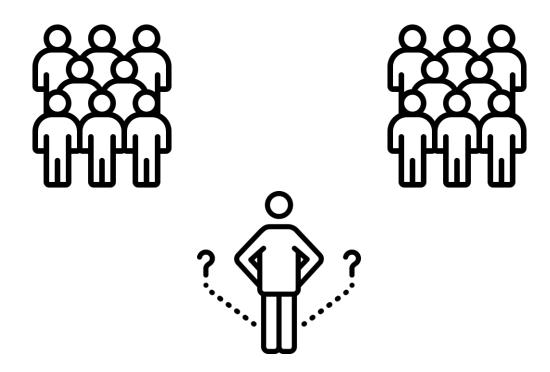
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### Context

During their studies, it is often necessary to assign students to different projects or internship offers, considering everybody's capacities and preferences



## Objectives

- Allocate students to different groups depending on parameters
- Make this accessible to non tech savvy teachers

#### Solution

- Develop a CSP tool
- Give it access by an LLM so that the users can simply chat and explain their problem

## The parameters



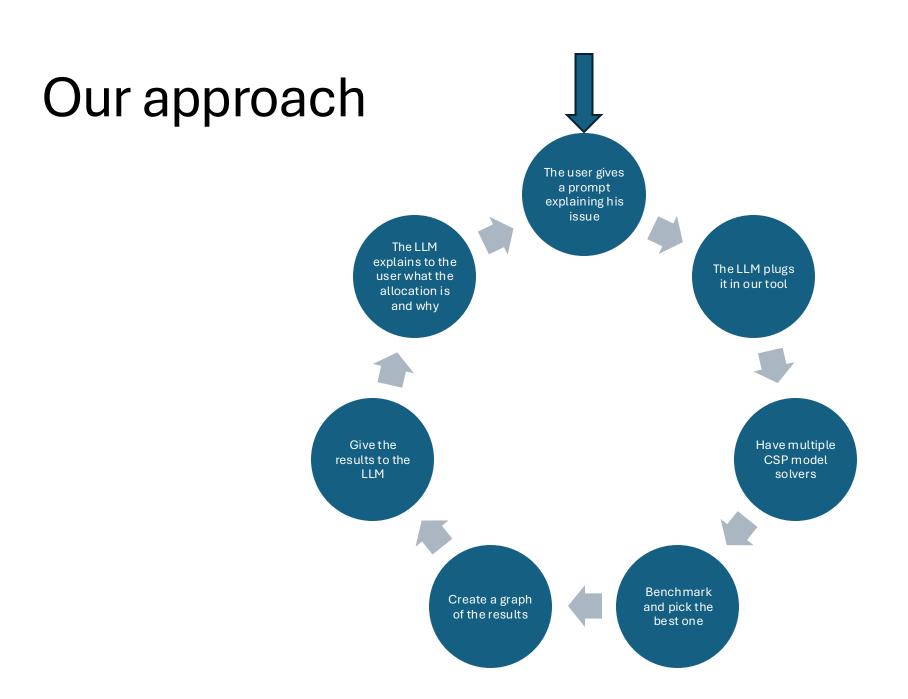
#### **Students**

Each student has their own ordered list of preferred groups, called preferences



#### Groups

Each group can only hold a certain number of students, called capacity



#### Difficulties faced

- The locally run LLMs given were slow (could take up to 10+min per prompt)
- Algo seemed to have some allocation errors by not maximizing preferences
- LLMs custom constraints functions not accurate enough for correct usage, LLMs not ready for function calling in combination with on-fly code-generation



## Demo of the Algo and LLM



Thank you for your time and attention