**INFO-5082 RESEARCH AND RESEARCH METHODOLOGIES**

**REINFORCEMENT LEARNING CHAT BOT**

**IN SAFE SCHOOL APP**

**Abstract:** My idea is to build a chatbot for the students to contact the higher authority. There is already an existing chat box available that allows the user to interact with superiors. In order to make it more effective and give the accurate recommendations I will use reinforcement learning. After the recommendations are given to users it will ask for the feedback from the users whether it is helpful or not according to the feedback the recommendations are improved that will make the application more useful and interactive.

Problem Statement: To create an effective chatbot that will give the accurate recommendations to the users

Workflow:

1. At the core of the chatbot should be trained with hard coded examples.
2. After each recommendation it should ask for the feedback.
3. According to the feedback it will rate the recommendation and the model score and then it should be updated accordingly.