

Project Number: 5

Project Title: Conversational Agent as facilitator for Group Projects

Project Clients: Sonit Singh, Basem Suleiman

Project specializations: Software Development;Artificial Intelligence (Machine/Deep Learning, NLP);Web Application Development;

Number of groups: 2 group

Main contact: Sonit Singh, Basem Suleiman

Background:

Most of the advanced courses at university level have team-based project work, where a team of four or five students, work towards delivering solution to a real-world problem. Group projects allow students to develop crucial collaborative skills, apply theoretical knowledge to solve real-world problem, gain exposure to diverse perspectives, practice time and project management, and learn how to resolve conflicts. Although team-based project work is a rewarding experience but it has many challenges, such as unequal contribution, poor communication, conflicts, poor leadership, unclear goals, uneven task distribution, and withholding information. The aim of this project is to design and develop a conversational agent that can enhance group discussions in a course-based group project work. This conversational agent can act as a facilitator in group discussions, taking in consideration of not only weekly group project criteria but also by managing time, encourage members to participate evenly, and organising member's diverse opinions.

Requirements and Scope:

The project scope is to design and develop a conversational agent using state-of-the-art Large Language Models (LLMs) to support group project.

Required Knowledge and skills:

TBD

Expected outcomes/deliverables:

Source code, user guide, report, presentation