

Project Number: 5 项目编号：5

Project Title: Conversational Agent as facilitator for Group Projects

项目名称作为小组项目促进者的对话代理

Project Clients: Sonit Singh, Basem Suleiman

项目客户：索尼特-辛格、Basem Suleiman

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

项目专长：软件开发；人工智能（机器/深度学习、NLP）；网络应用程序开发；

Number of groups: 2 group

组数：2 组

Main contact: Sonit Singh, Basem Suleiman

主要联系人索尼特-辛格、Basem Suleiman

Background: 背景介绍

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.

大多数大学高级课程都有团队项目工作，即由四名学生组成一个团队，为解决现实世界中的问题而努力。通过小组项目，学生可以培养重要的协作技能，运用理论知识解决实际问题，接触不同的观点，练习时间和项目管理，并学习如何解决冲突。虽然团队项目工作是一种有益的体验，但也存在许多挑战，如贡献不均、沟通不畅、冲突、领导不力、目标不明确、任务分配不均和隐瞒信息等。本项目旨在设计和开发一个会话代理，以加强课程小组项目工作中的小组讨论。该对话代理可在小组讨论中充当主持人，不仅要考虑每周的小组项目标准，还要管理时间、鼓励成员均衡参与、组织成员的不同意见。

Requirements and Scope: 要求和范围:

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

项目范围是使用最先进的大型语言模型（LLMs）设计和开发一个会话代理，以支持小组项目。

Required Knowledge and skills:

所需知识和技能

TBD 待定

Expected outcomes/deliverables:

预期成果/交付成果:

Source code, user guide, report, presentation

源代码、用户指南、报告、演示文稿