

Project Number: 6 项目编号：6

Project Title: Design and development of a project recommendation system based on Profiles Complementarity

项目名称设计和开发基于配置文件互补性的项目推荐系统

Project Clients: Sonit Singh, Basem Suleiman

项目客户：索尼特-辛格、Basem Suleiman

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

项目专长：软件开发；网络应用程序开发；人工智能（机器/深度学习、NLP）；

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

Choosing a particular project and team members is a challenging feat and impacts team's success in delivering quality project. It involves a nuanced understanding of team members' skills, project requirements, and overall project goals. Traditional methods often rely on manual assessments and subjective decision making, leaving room for inefficiencies and mismatches. The goal of this project is to use data-driven and objective approach using state-of-the-art artificial intelligence technologies. The AI is used to create detailed skill profiles for each member by analysing their past project performances, certifications, and completed courses. The developed system also identifies skills required to deliver a particular project successfully. Based on individual profiles and required skills for the project, the recommender system ensures that the right team members are selected for the right project based on their right skillset.

选择一个特定的项目和团队成员是一项具有挑战性的壮举，会影响团队能否成功交付优质项目。这需要对团队成员的技能、项目要求和项目总体目标有细致入微的了解。传统的方法往往依赖人工评估和主观决策，从而导致效率低下和不匹配。本项目的目标是利用最先进的人工智能技术，采用数据驱动的客观方法。人工智能通过分析每个成员过去的项目表现、认证和已完成的课程，为他们创建详细的技能档案。开发的系统还能识别成功交付特定项目所需的技能。根据个人资料和项目所需技能，推荐系统可确保根据正确的技能组合为正确的项目选择正确的团队成员。

Requirements and Scope: 要求和范围:

The scope of the project is to develop a recommender system which can team members complementary skillset, project skills requirement, and recommending best matches.

该项目的范围是开发一个推荐系统，该系统可以对团队成员的互补技能、项目技能要求进行分析，并推荐最佳匹配方案。

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, and presentation

源代码、用户指南、报告和演示文稿