locus 2.0

An AI driven placement platform

Interview skills (Soft skills, resume building skills, aptitude skills) play a vital role in students' placement. The training provided by institutions is generic. This hinders the progress of students as only 10% of students clear the interview. Our aim is to provide a personalized learning path to get better at interview skills.

We propose an AI approach to personalize learning by providing resources/recommendations to help students incrementally improve their skills. Using content-based filtering [1][2] and further moving towards a hybrid approach [1][2] of filtering, for personalized suggestions. "locus" aims to presents a recommendation system for college students seeking placements, jobs, and internships. The system uses a student profile-based approach to make personalized recommendations. The system considers various factors such as student skills, academic performance, and career interests. A detailed discussion of the machine learning approach is provided, including the selection of appropriate algorithms and the implementation of the recommendation system. The aim is to provide students with a personalized and efficient solution for finding suitable opportunities and making informed career choices.

The machine learning models suitable for the student profile based recommendation system include:

- Collaborative Filtering
- Content-Based Filtering
- Hybrid Recommendation Systems

The parameters of the data that can be used in the recommendation system include:

- Student profile information (e.g. skills, academic performance)
- Job/Internship characteristics (e.g. job role, company, location, etc.)
- Demographic information (e.g. age, gender, etc.)

The data can be used to create student profile vectors, which can be compared with job/internship vectors to make recommendations based on similarities. The machine learning model can be trained on the available data and can be updated regularly to improve the accuracy of the recommendations.
In addition we propose a resume parser that's used to mock the industry standard ATS resume parser.
The outcomes of the project are

- To increase the confidence level of users by training them all the relevant interview skills.
- Suggest users on improving the resume based on score.

References:
(PDF) Machine Learning Algorithms for Recommender System - a comparative analysis [1]
https://www.algoexpertise.com/which-algorithms-are-used-in-recommender-systems/ [2]

Team:

Bilal Aamer, N. Hrushikesh Rao, T. Saimahesh - 19011P0506, 19011P0512, 19011P0525

Dr. G. Vijaya Kumari (Mentor): _____