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Job Analista : A Smart Resume Analyser and Recommendation System

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Abstract: *Machine learning, a subfield of data science, focuses on creating algorithms capable of learning from data and making predictions. Presently, recommendation frameworks are employed to address the issue of information overload across various domains, allowing users to focus on pertinent data. One area where such recommender systems can be invaluable is in aiding college graduates in finding employment opportunities aligned with their skill sets. Despite the abundance of websites offering extensive job information, this task remains daunting for students, who must sift through large volumes of data to identify suitable positions. Moreover, many students struggle to determine which jobs suit their abilities. In the thriving IT sector, engineering students are acquiring technical skills through courses, yet they lack guidance on which skills correspond to specific job roles. Existing job recommendation systems typically consider only the user's stated interests, overlooking their individual profile and skill set. This paper proposes a solution that examines users' resumes, evaluating their educational background, soft skills, hard skills, and project experience to provide tailored job recommendations. The system not only suggests suitable jobs but also assigns a score to the user's resume for each recommended position. Additionally, it offers recommendations for skill improvement to enhance the user's resume score.*

Keywords: Machine Learning, Recommendation Systems, Job Matching, Job Recommendations

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