

Employment Recommendation System Using Machine Learning

Asmita Kamble, Sharan Bindroo, Aishwarya Bawlekar, Dhruvi Kapadia, Vinit Salunke

Department of Computer Engineering, Sinhgad Institute of Technology and Science, Narhe, Pune

Abstract: - *The unorganized sector forms a significant portion of the workforce in developing countries, particularly in India. One of the important sectors of the Indian economy is the informal labour market. It is difficult for workers from various regions of the country to contact industry or entrepreneurs for jobs that are far from their state/settlement, which causes an increase in the country's unemployment rate. So, in search of job opportunities, they contact labour developers who take some of their wages as a commission to link them up. There is a close-knit kinship amongst workers, skilled unskilled, leading to sharing of information on potential work availability on a new site. If such information can be made available to the worker on a regular systematic way Workers can get gainful employment continuously without breaks. They can avoid fruitless travel in search of work with this indentation a study was conducted to find out the requirements of workers other stake holders such as contractors. In this paper, we propose a web portal with a job recommender system to connect unorganized workers to their employers and find the right job. This proposal will solve unorganized workers' difficulties with informal employment and will connect unskilled laborer's from different parts of the nation for their employment without any commission and bring positive change in the employment rate.*

Keywords: Recommendation System, Support Vector Machine (SVM), Machine Learning, Classification, etc.

REFERENCES

- [1] "Item-Based Collaborative Filtering in Movie Recommendation in Real time", Mukesh Kumar Kharita; Atul Kumar; Pardeep Singh, 2018 First International Conference on Secure Cyber Computing and Communication (ICSCCC), 2018, IEEE.
- [2] "Dynamic user profile-based job recommender system", Wenxing Hong; Siting Zheng; Huan Wang, 2013 8th International Conference on Computer Science & Education, 2013, IEEE.
- [3] "Improving Job Recommendation Using Ontological Modeling and User Profiles", S.R. Rimitha; Veda Samhitha Abburu; Annem Kiranmai; Marimuthu C; K. Chandrasekaran 2019 Fifteenth International Conference on Information Processing (ICINPRO), 2019, IEEE.
- [4] "Job Recommendation through Progression of Job Selection", Amber Nigam; Aakash Roy; Hartaran Singh; Harsimran Waila, 2019 IEEE 6th International Conference on Cloud Computing and Intelligence Systems (CCIS), 2019, IEEE.
- [5] "Smart Job Recruitment Automation: Bridging Industry and University", Vijay Yadav; Ujjwal Gewali; Suman Khatri; Shree Ram Rauniyar; Aman Shakya, 2019 Artificial Intelligence for Transforming Business and Society (AITB), 2019, IEEE.
- [6] "Ontologies to Model User Profiles in Personalized Job Recommendation", S.R. Rimitha; Veda Samhitha Abburu; Annem Kiranmai; K. Chandrasekaran, 2018 IEEE Distributed Computing, VLSI, Electrical Circuits and Robotics (DISCOVER), 2018, IEEE.
- [7] "Context-aware hotel recommendation system based on hybrid approach to mitigate cold-start-problem", Khushbu Jalan; Kiran Gawande, 2017 International Conference on Energy, Communication, Data Analytics and Soft Computing (ICECDS), 2017, IEEE.

- [8] "JobFit: Job Recommendation using Machine Learning and Recommendation Engine", Kevin Appadoo; Muhammad Bilaal Soonnoo; Zahra Mungloo-Dilmohamud, 2020 IEEE Asia-Pacific Conference on Computer Science and Data Engineering (CSDE), 2021, IEEE.
- [9] "Adaptive methods for job recommendation based on user clustering", Quoc-Dung Nguyen; Tin Huynh; Tu-Anh Nguyen-Hoang, 2016 3rd National Foundation for Science and Technology Development Conference on Information and Computer Science (NICS), 2016, IEEE.
- [10] "Smart Recommendation System Based on Product Reviews Using Random Forest", Gayatri Khanvilkar; Deepali Vora, 2019 International Conference on Nascent Technologies in Engineering (ICNTE), 2019, IEEE