

AUTOMATED RESUME CLASSIFIER

Minindu Gunasekara

A dissertation submitted in partial fulfilment of the requirement for
Bachelor of Science (Honours) degree in Business Information Systems

Business School

Informatics Institute of Technology, Sri Lanka

in collaboration with

University of Westminster, UK

2023

Abstract

This research examines the implementation of curriculum vitae (CV) filtering software to address the issue of effectively evaluating a job applicant's shown performance based only on the information stated on their CV. CV filtering tools have become rapidly important in today's job market due to the massive number of resumes received for each job position. Such tools assist in automating the screening process by filtering out irrelevant or unqualified candidates as per the criteria estimated by the recruiter. The widespread practice of candidates intentionally hiding information in their CVs has affected CV filtering software in order to separate candidates with actual essential qualities from candidates who use fraudulent methods to divert the software tool. Such activities have become a challenge for recruiters to accurately assess applicants' qualifications and work experience. The proposed desktop application is designed to detect fraudulent activities and filter candidates based on their work experience. Machine learning (ML) and optical character recognition (OCR) are the major technologies utilized in the proposed CV filtering tool. Due to the involvement of uncertainty in requirements and continuous feedback from the general users and industry experts, the most productive way of software development methodology is the hybrid approach of combining Agile and Waterfall methodologies. Furthermore, the proposed system not only saves time and resources in hiring the process but also ensures a fair and objective evaluation of all applicants.