NexGen Resume Parser

A report submitted in partial fulfillment of the requirements for the award of a degree of

Bachelor of Technology

in

Computer Science and Engineering

By

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(2023-2024)

DECLARATION

I hereby declare that the report entitled **" NexGen Resume Parser"** submitted for the award of the degree of **Bachelor of Technology (B. Tech)** in Computer Science and Engineering is a record of an original work done by me and the report has not formed the basis for the award of any degree, diploma, associateship or fellowship of similar other titles. It has not been submitted to any other University orInstitution for the award of any degree or diploma.

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CERTIFICATE

This is to certify that the report entitled **"NexGen Resume Parser "** is being submitted by **Mr. S. Venkatesh** bearing the Hall Ticket number **21EG505863**, in partial fulfillment for the award of the Bachelor of Technology in Computer Science and Engineering to the Anurag University is a record of bonafide work carried out by him under my guidance and supervision.

The results embodied in this report have not been submitted to any other University or Institute for the award of any other degree or diploma.

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ABSTRACT

The NexGen Resume Parse Project is focused on advancing the field of resume parsing through the application of cutting-edge natural language processing (NLP) and machine learning (ML) techniques. This project aims to develop a state-of-the-art system capable of accurately extracting relevant information from resumes, including personal details, work experience, skills, and education. One of the key objectives of this project is to enhance the semantic understanding of resume text, enabling the system to not only extract information but also comprehend the context and meaning of the text. To achieve these objectives, the project will leverage advanced NLP techniques such as named entity recognition (NER), part-of-speech tagging, and dependency parsing. These techniques will be instrumental in accurately identifying and extracting information from resumes, ensuring that the system can process diverse resume formats and styles effectively. Additionally, the project will utilize machine learning models trained on labeled resume datasets to improve the accuracy of information extraction and classification.The system developed as part of this project will be designed to be scalable and efficient, capable of processing large volumes of resumes quickly and accurately. This scalability will be crucial in enabling the system to handle the demands of real-world recruitment processes, where large numbers of resumes need to be processed in a timely manner. Furthermore, the project will focus on providing an API and integration tools that will allow the system to be easily integrated into existing recruitment platforms and workflows, making it accessible to a wide range of users.

Keywords:**Natural Language Processing,NextGen ,Integration.**

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