# HR Workforce Management using Generative Al

#### Introduction:

Introducing our Human Resource AI application: an innovative solution designed to revolutionize the resume screening process. With this cutting-edge tool, users can upload numerous resumes and input specific queries. Our AI algorithms then analyze the resumes to generate tailored outputs, aligning with the provided criteria. This streamlined approach enhances the accuracy and efficiency of candidate selection, saving valuable time and resources for HR professionals. Additionally, our application offers the convenience of extracting selected details into a user-friendly format, facilitating easy review and comparison.

## Challenges:

Before the adoption of Human Resource solutions, HR professionals encountered many obstacles in evaluating and organizing resumes.

- Time constraints: Reviewing numerous resumes is time-consuming and can divert attention from other critical HR tasks.
- Manual effort: Traditional methods of resume screening require manual review, leading to potential human errors and inconsistencies.
- Subjectivity: Human bias may influence decision-making, leading to unfair candidate selection.
- Lack of standardization: Without a standardized approach, it can be challenging to compare candidates objectively.
- Information overload: Sorting through many resumes can overwhelm HR professionals, making it difficult to focus on key qualifications and experiences.
- Resource constraints: Limited resources, such as staffing and technology, may hinder the efficiency of the resume screening process.

#### Solution:

This application addresses these challenges by leveraging Generative AI technology to automate the process of sorting of Resumes by entering valid Queries. The application utilizes Large Language Models and advanced natural language processing to identify and sort relevant information from the Resumes.

## Implementation:

- **Data Extraction**: This application automatically scans and extracts data from resume and sort according to the queries
- **Natural Language Processing**: The application employs sophisticated natural language processing (NLP) techniques to analyze and interpret the extracted data.
- **Generative AI**: Generative AI for Human Resources presents a user-friendly dashboard for resume analysis, featuring intuitive options for uploading resumes and inputting specific criteria. It streamlines the process by allowing HR professionals to easily generate tailored outputs and extract selected details for efficient review and comparison.
- **User Interface**: Presents extracted information in a structured table view format, allowing HR professionals to review and compare candidate profiles effectively. Specify job requirements, skill sets, and other criteria to customize the output generated by the system.

### Technology:

- Backend Python Django
- Frontend Flutter
- LLM OpenAI GPT 3.5 model
- Database MySQL

#### Benefits:

Generative AI brings a host of advantages to Human Resources, enhancing efficiency and accuracy in several ways. By automating tasks like resume screening and candidate matching, it frees up HR professionals to focus on strategic initiatives. Its precision in analyzing vast amounts of data reduces bias and improves the accuracy of candidate selection. Moreover, it enables personalized recommendations tailored to specific job requirements and candidate profiles, improving the likelihood of finding the perfect fit. With scalability to handle large volumes of resumes and valuable insights into recruitment trends, generative AI empowers HR departments to make data-driven decisions and deliver an enhanced candidate experience. Additionally, it aids in ensuring compliance with hiring regulations and diversity initiatives. Overall, generative AI revolutionizes HR practices, driving organizational success through streamlined processes and informed decision-making.