

# RESUMATE AI

## ANALYSE Resume by AI

### Methodology

#### 1. Data Acquisition:

- The system will acquire resumes uploaded by users in PDF format. The uploaded file is stored in a root directory for further processing.

#### 2. Data Parsing and Extraction:

- Using Natural Language Processing (NLP) techniques, the system parses the resume to extract essential information, such as personal details, work experience, skills, education, and other relevant sections.
- The extracted data is then transformed into a structured JSON format.

#### 3. Data Storage:

- Parsed information is stored in a MySQL database. The database consists of tables for user data, admin credentials, and user feedback.

#### 4. Analysis and Prediction:

- Based on extracted keywords and sections, the system classifies the resume into categories (e.g., Web Development, Data Science).
- An experience level prediction (Fresher, Intermediate, Experienced) is conducted based on resume content, such as keywords like "Internship" or "Work Experience."

#### 5. Recommendations:

- The tool provides tailored recommendations based on the applicant's skills and experience. This includes suggested skills, job role predictions, and resources for skill enhancement like courses or certifications.

#### 6. Scoring and Feedback:

- A resume scoring algorithm evaluates and scores the resume based on its content.
- Applicants receive tips for improvement, and a feedback mechanism allows users to rate the analyzer.

## 7. Admin Dashboard and Analytics:

- The admin dashboard provides analytics, including data visualizations (pie charts) for predicted fields, experience levels, and user demographics.
- Admins can download parsed data as CSV files and access feedback for continual tool improvement.

### Block Diagram:

