Carrer Craft ATS Optimized Resume Analyzer Using Gemini

Student Name : Siddharth Kumar

Roll No : 2200680100312

Student Name : Sparsh Gupta

Roll No : 2200680100321

Student Name : Sujal Rastogi

Roll No : 2200680100323

Student Name : Suvansh

Roll No : 2200680100325

Year : 3rd

Section : E[CSE]

Introduction

- **Background on ATS**:

- Definition and purpose of Applicant Tracking Systems (ATS) in recruitment.
- Core functionalities: Resume parsing, keyword matching, and candidate ranking.
- Industry prevalence and usage statistics.

- **Importance of Optimized Resumes**:

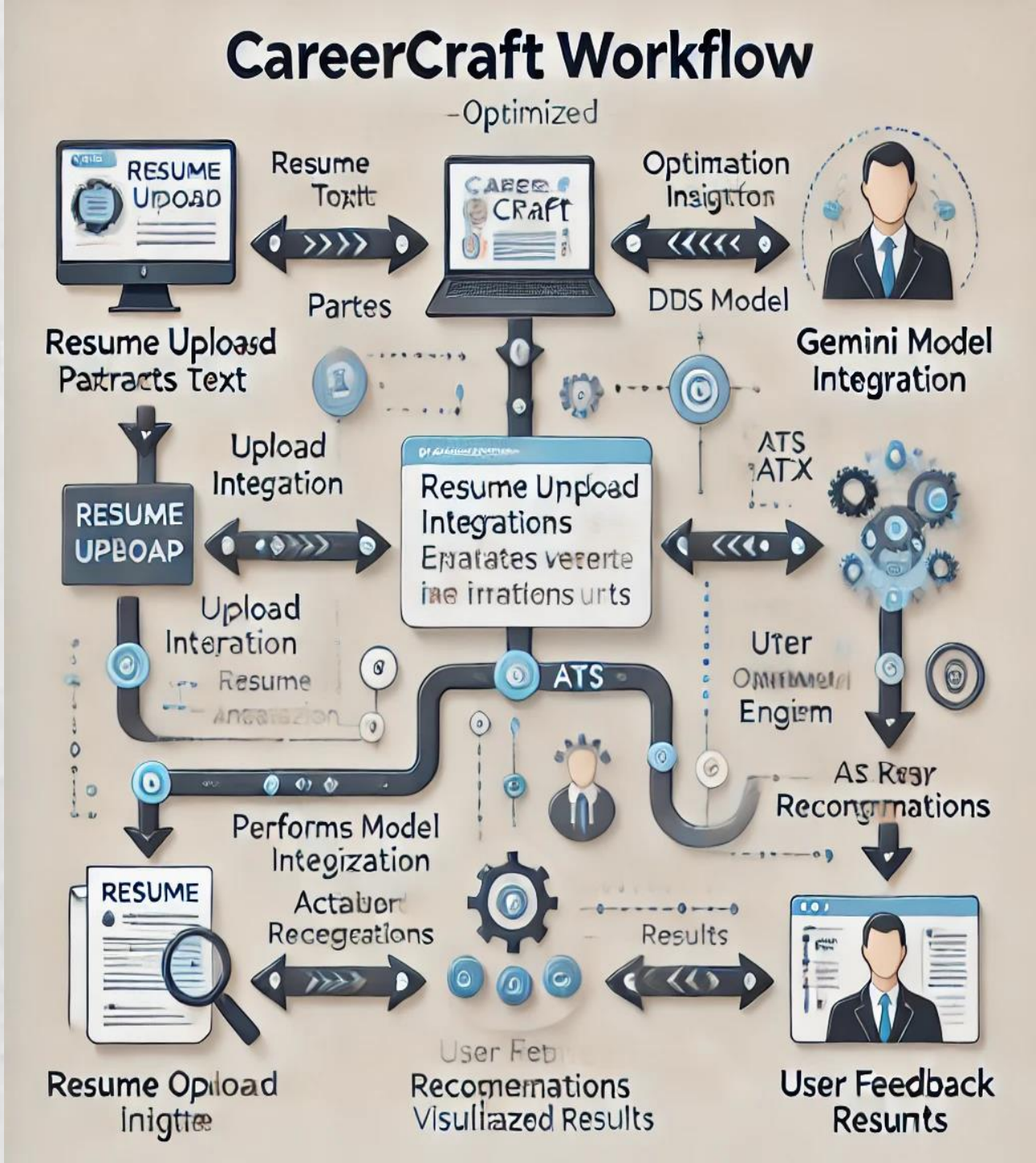
- Role of resumes in creating the first impression for candidates.
- ATS compatibility as a critical factor for job application success.
- Competitive advantage provided by optimized resumes.

- **Objectives**:

- Development of **Career Craft** for ATS-optimized resume analysis.
- Research focus: Evaluating the effectiveness of the **Gemini Model** in resume parsing.

Workflow

- **Start**:
- The process begins with the user uploading a resume (supported formats: PDF, DOCX, TXT)
- **Resume Upload Module**:
- The uploaded file is parsed, and relevant text is extracted.
- Information such as work experience, education, and skills is structured into a standard format.
- **Gemini Model Integration**:
- The parsed data is sent to the Gemini Model, which analyzes the resume content using advanced Natural Language Processing (NLP).
- It identifies context, semantics, and relevant job-role-specific details.



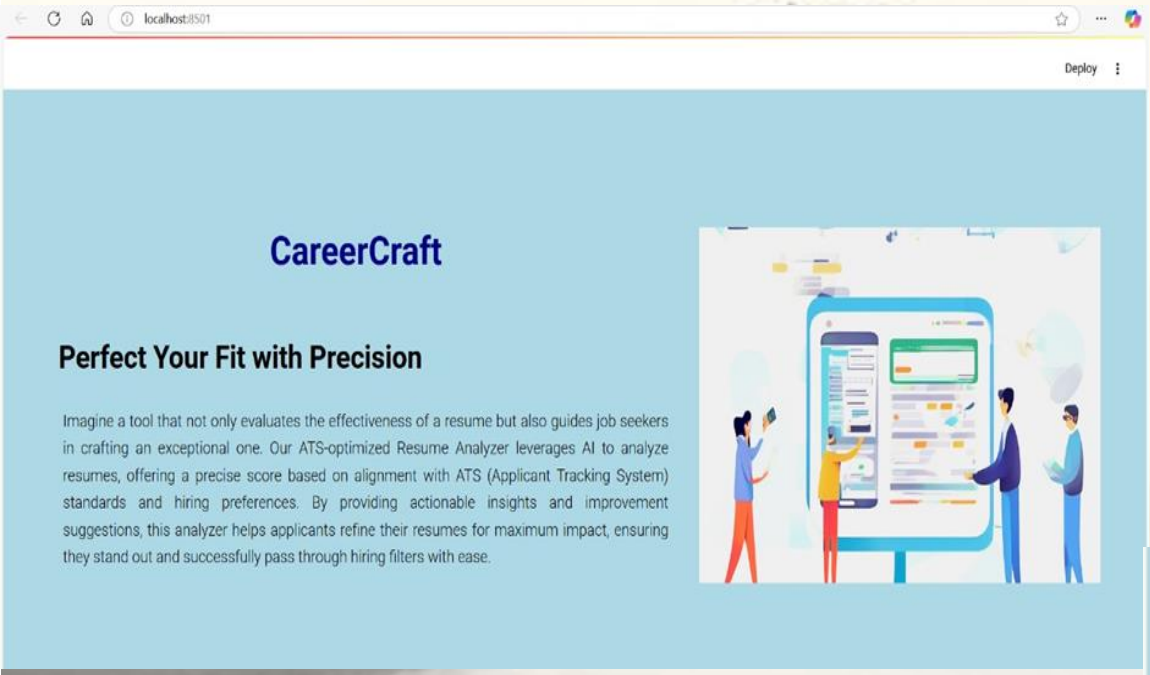
- **ATS Optimization Engine**:
- The resume is evaluated for keyword relevance based on job descriptions and ATS compatibility.
- Formatting and structure are assessed to ensure compliance with ATS-friendly guidelines.
- **User Feedback System**:
- Personalized recommendations are generated for improving the resume, including keyword usage, formatting adjustments, and section organization.
- Results are visualized using scores, charts, and actionable insights.
- **Output**:
- The final analyzed resume and recommendations are presented to the user.

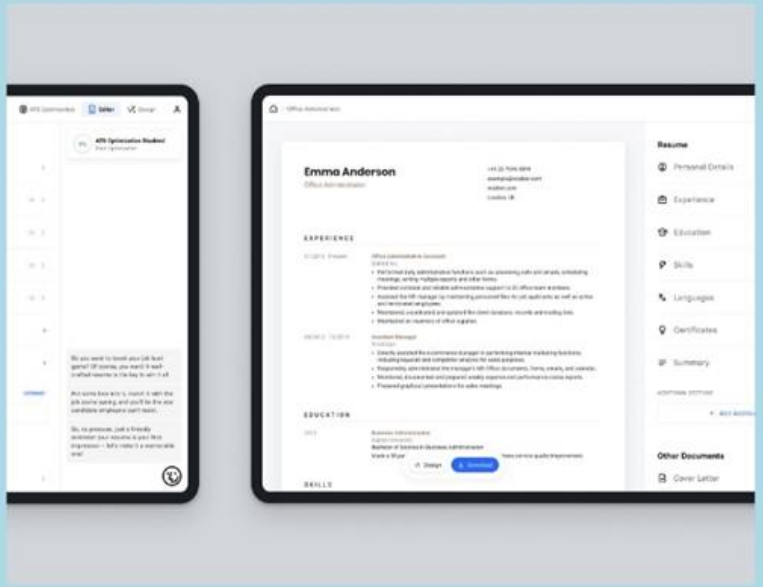
Project Modules Description

- **Resume Parsing and Analysis**:
- Text extraction techniques and tokenization.
- ATS optimization through keyword relevance and formatting guidelines.
- **Gemini Model Overview**:
- Contextual understanding of resumes using NLP.
- Adaptability across industries and job roles.
- **User Interface Design**:
- Built with Streamlit for interactive, user-friendly navigation.

- **System Architecture**:
- Frontend (Streamlit) and backend (Python, TensorFlow).
- Integration of Gemini model for seamless analysis.
- Data privacy and security considerations.
- Users can input job descriptions to tailor their resumes for specific roles.
- The system is designed to handle multiple users simultaneously by leveraging cloud-based infrastructure.
- **Evaluation and Results**:
- Key performance metrics: Accuracy, recall, and F1 score.
- Comparison with existing tools to highlight advantages.

Glimpse of our website





Broad Range of Offerings

- ATS-Optimized Resume Analysis
- Resume Optimization
- Skill Enhancement
- Career Progression Guidance
- Tailored Profile Summaries
- Streamlined Application Process
- Personalized Recommendations
- Efficient Career Navigation

Navigate Your Carrer Journey

Enter the Job Description

The DevOps Engineer will create, maintain, and automate DevOps pipelines; continuously improve automated build, test and deployment workflows. They will support/secure production and development systems in a constantly evolving environment of integrated systems.

Upload Your Resume

Drag and drop file here

Limit 200MB per file • PDF

Browse files

2024 Fresher Software Engineer Resume Example (+Guidance) _ TealHQ.pdf 64.5KB

Submit

Career Guidance

Analysis Result

JD Matching Percentage: 80%

Missing Keywords:

- Native Mobile App Platform knowledge & experience – Backend API's supporting mobile apps
- Browserstack
- LambdaTest

Profile Summary:

Ryan Rodriguez is a highly adaptable and motivated software engineer with a keen eye for detail and a disciplined approach to coding and debugging. He possesses proven capabilities in cloud architecture and development, as well as experience in leading teams and implementing machine learning algorithms to improve data processing efficiency. His skills include Java development, RESTful API development, Agile/Scrum methodologies, CI/CD pipelines, and cloud technologies (AWS, Azure, GCP).

Technology used

PYTHON

HTML

CSS

STREAMLIT

References

STREAMLIT DOCS

PYTHON DOCS