

Resume Analysis: A Powerful Tool for Job Seekers

This presentation will explore a novel resume analysis app that leverages the power of Natural Language Processing (NLP) to empower job seekers in their career journeys.

 by Suvigya Bisht


RESUME ANALYZE


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Technologies at the Core

Streamlit

Streamlit simplifies web app development, enabling the creation of interactive data visualizations and intuitive user interfaces.

Python Libraries

Python libraries such as Pandas, Plotly, and SQLite provide the backbone for data manipulation, visualization, and storage.

A User-Centric Workflow

1

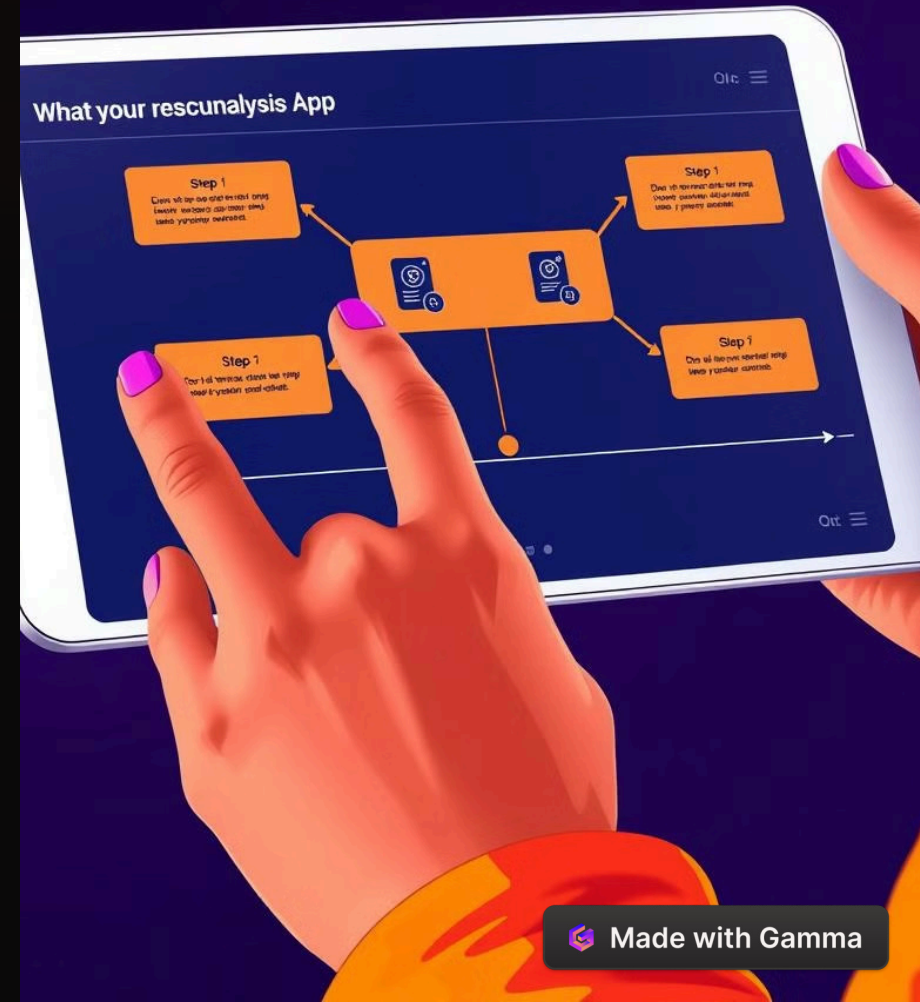
Users upload their resumes. The app analyzes the content, extracts key information, and categorizes the user based on their experience level.

2

The app recommends relevant skills and provides personalized feedback to improve the resume's effectiveness.

3

Admin users can monitor app usage, manage user data, and generate reports to track performance and identify areas for improvement.



NLP

Unveiling the Power of NLP

Information Extraction

The app extracts key details such as name, email address, and contact information.

Experience Level Categorization

It categorizes resumes into Fresher, Intermediate, and Experienced, enabling tailored recommendations.

Boosting Skills with Recommendations



Data Science

The app provides a comprehensive set of skills and keywords relevant to data science, including Python libraries, machine learning algorithms, and data analysis techniques.



Web Development

The app helps users enhance their web development skills by suggesting key technologies such as HTML, CSS, JavaScript, and popular frameworks.



Android Development

The app recommends skills related to Android development, such as Java, Kotlin, Android SDK, and various libraries.



Quantifying Resume Success

1

Objective

The strength of the user's objective statement is assessed for clarity and focus on relevant skills.

2

Declaration

The declaration section is evaluated for its ability to highlight key accomplishments and relevant experience.

3

Projects & Achievements

The app analyzes the projects and achievements section, awarding points for relevant contributions and impact.

4

Skills

The skills section is scored based on the relevance and depth of skills listed, matching them with industry demands.

Admin Dashboard for Management

1

Login & Access

Admin users can log in to access the dashboard, which provides an overview of user data and app performance.

2

User Data

The dashboard offers insights into user activity, including resume uploads, skill recommendations, and score distributions.

3

Report Generation

Admin users can generate reports on resume analysis data, allowing them to identify trends, monitor user behavior, and track progress.



Challenges & Learnings

1

Data Collection

Gathering diverse and representative resume data for accurate analysis and training of the NLP model was a significant challenge.

2

Model Training

Fine-tuning the NLP model to accurately identify and categorize skills required rigorous training and experimentation.

3

User Feedback

Gathering feedback from users was crucial to ensure the app's usability and effectiveness.

Future Enhancements

1

AI-Powered Resume Writing

Adding a resume writing feature powered by AI to provide personalized guidance and suggestions for improving resume content.

2

Job Matching

Integrating job matching functionality to connect users with relevant job postings based on their skills and experience.

3

Personalized Coaching

Developing a personalized coaching module to provide users with tailored career advice and guidance based on their individual needs.

Empowering Job Seekers

This resume analysis app aims to empower job seekers by providing them with valuable insights and tools to create compelling resumes and stand out in the competitive job market.

