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Problem Statement: Conversational Bot for Resume Building

Objective

In today's competitive job market, job seekers often struggle to create well-structured and compelling resumes due to a lack of clarity on essential sections, professional wording, and formatting. Manually crafting a resume can be time-consuming, and candidates often miss out on key information that could strengthen their profile.

To address this challenge, we propose developing an Al-powered **Conversational Resume** Assistant that engages users in a guided conversation to collect relevant information and generate a complete, professional-quality resume.

Requirements

- **Conversational Data Collection:** The bot will engage users in a structured conversation to fill in key resume sections such as personal details, education, work experience, skills, and achievements.
- **Job-Specific Resume Suggestions:** The bot will allow users to input a job description and will provide tailored recommendations for skills, job descriptions, and achievements based on industry best practices.
- **Keyword Optimization for ATS:** The system will analyze the resume and suggest improvements to enhance Applicant Tracking System (ATS) compatibility.
- Basic Grammar & Formatting Check: The bot will highlight spelling mistakes, grammar issues, or overly long sentences to improve the quality of the resume.
- **Resume Scoring System:** The system will provide an automated score based on content quality, completeness, and keyword optimization.
- Custom Resume Templates: Users will be able to choose from at least two different templates (e.g., compact vs. detailed format).
- Efficient & Optimized Resume Generation: The system must generate a resume within 20 seconds after data input to ensure a seamless experience.
- Basic Sentiment Analysis: The bot will analyze different resume sections to provide feedback on tone and phrasing, ensuring positive and professional wording.
- **Generate and Export Resumes:** Automatically format and generate a structured resume that can be exported in various formats (PDF, DOCX).

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Additional Functionalities:

• Admin Panel for Credit Management:

 Users can request extra credits for resume generation, which will be reviewed and approved by the admin.

• Credit System:

- Each resume generation will consume 1 credit.
- Every user will receive 3 free credits daily, refreshing every 24 hours.
- Further credit requests must be manually approved by the admin.

• Role-Based Access Control (RBAC):

- Two user roles: Normal Users & Admins.
- Normal users can generate resumes within their available credits.
- Admins can approve credit requests and access analytics.

• Multiple Authentication Options:

- Platform should have at least 2 authentication methods.
- First, Users should be able to log in via username & password (in-house authentication system).
- For the other, users can log in via any popular authentication service (e.g., Google, GitHub, etc.).

Admin Dashboard with Analytics:

- Admins should have a dashboard displaying basic analytics related to resume generation.
- Extra brownie points for additional insights such as most-used templates, common resume errors, user engagement metrics, etc.

• Rate Limiting & Resource Management:

- Appropriate rate limits should be enforced on backend services to prevent overutilization.
- Prevent abuse by limiting the number of resume generations per minute/hour per user.

Evaluation Criteria

- Functionality: Completeness of the required features and adherence to the requirements.
- System Design: Scalability, efficiency, and the ability to handle high traffic.
- **Performance:** Timely processing and delivery of resumes while ensuring smooth backend operation.
- **Security & Compliance:** Proper implementation of authentication, RBAC, and ratelimiting mechanisms.
- **Innovation:** Additional enhancements beyond the required features will receive extra recognition.

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By leveraging AI and NLP, this chatbot will simplify resume creation while maintaining high-quality, ATS-friendly formatting. The addition of admin-controlled credits, authentication layers, analytics, and system constraints will make the challenge more competitive and realistic for a hackathon setting.