

Gen AI Exchange Hackathon

Team Name : 404 Brains Not Found

Team Leader Name : Putta Sujith

Problem Statement : Personalized career and skills advisor

Brief about the prototype:

The career world is complex, and for many people, the job search feels like a guessing game. You apply for a position, but without understanding if your resume truly aligns with what the company is looking for, it's easy to get lost.

RunaGenAI brings clarity to this process. It acts as your personal AI career mentor, powered by Google's advanced Generative AI. We've built a seamless platform that takes the guesswork out of job applications by providing instant, data-driven insights.

Our core innovation is the AI-powered skill gap analysis. You simply upload your resume and paste the job description you're interested in. In seconds, RunaGenAI intelligently compares the two, highlighting the exact skills you're missing.

But we don't just point out the problem; we provide the solution. The app generates an actionable roadmap, offering personalized, step-by-step guidance. This roadmap is curated with specific resources, such as links to relevant videos, courses, and projects, to help you acquire the skills you need.

By turning a confusing problem into a clear, confident path, RunaGenAI empowers you to not only land your dream job but to build a successful career.

Opportunity should be able to explain the following:

- How different is it from any of the other existing solutions?

Unlike platforms like Coursera or LinkedIn Learning, which offer generic content, our solution uses GenAI to analyze real resumes vs job postings, then builds personalized, gamified roadmaps with hands-on simulations making career prep dynamic and tailored.

- How will it be able to solve the problem?

It identifies skill gaps from resumes, generates an adaptive roadmap, and offers real-world tasks with instant AI feedback. Users stay engaged through badges, AI mentorship, and career-aligned guidance.

- USP of the proposed solution

A career RPG uniquely combining resume intelligence, simulations, and gamification. No other platform blends job alignment, AI coaching, and interactive learning this seamlessly.

List of features offered by the solution

Imagine a student unsure about their career path. They take a quick quiz, upload their resume, and instantly see where their skills shine and where they need work. Step by step, a gamified roadmap guides them, with fun challenges, AI feedback, and badges that keep them motivated until they're ready to land the right job with confidence.

Features Offered by AI Career Companion

**Resume Analyzer**

Upload CV, find missing skills vs real jobs

**Dynamic Roadmap**

Personalized RPG-style career journey

**Career Simulations**

Hands-on tasks with instant AI feedback

**Personality Quiz**

Suggests careers aligned with strengths

**AI Mentor**

Resume tips, mock interview Q&A

**Badges & Rewards**

Motivation via achievements

**AI Mentor**

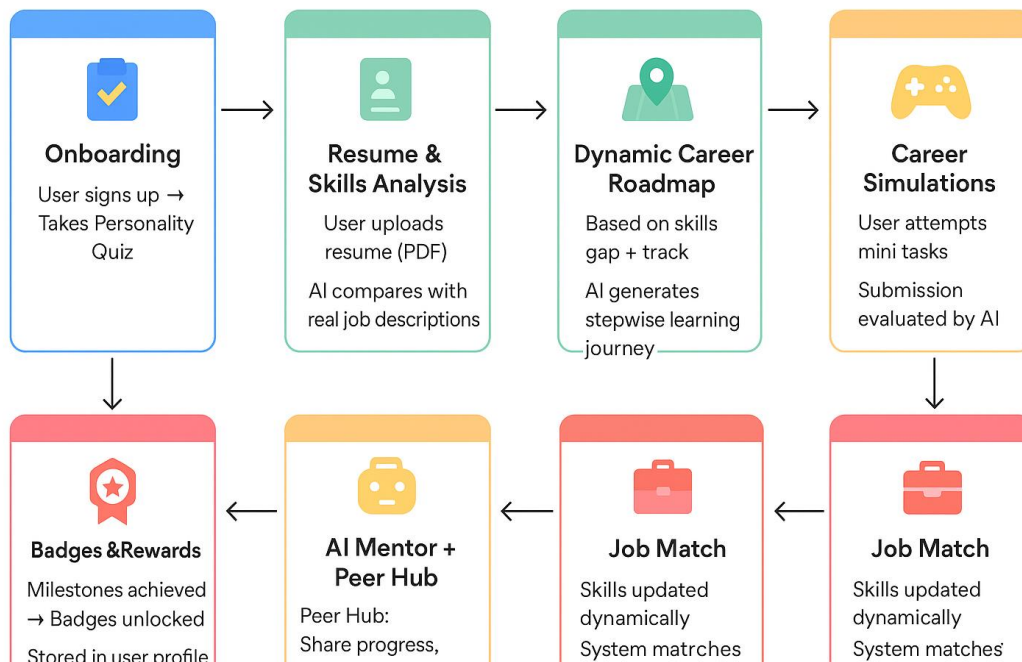
Share progress, learn from peers

**Job Match**

Align skills directly with market demand

Process flow diagram or Use-case diagram

Workflow of AI Career Companion



Wireframes/Mock diagrams of the proposed solution (optional)

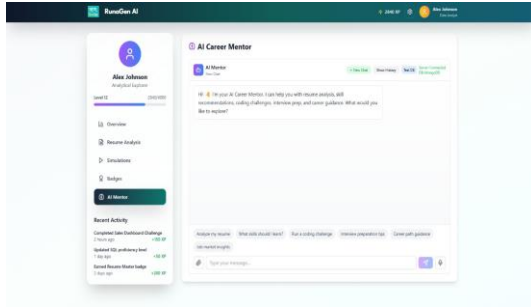


Fig-1 AI Career Mentor

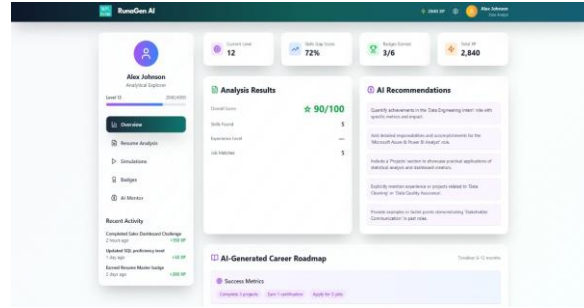


Fig-2 Dashboard

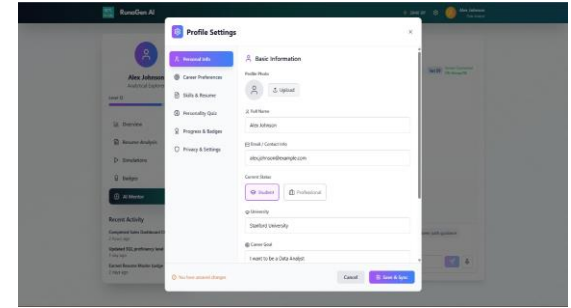


Fig-3 Profile Settings

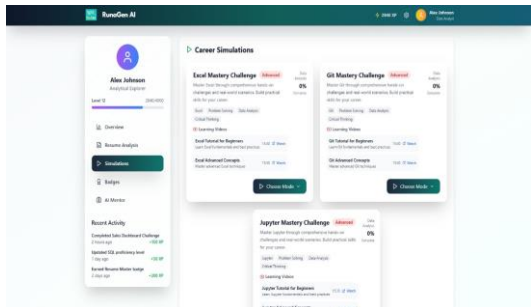


Fig-4 Simulations

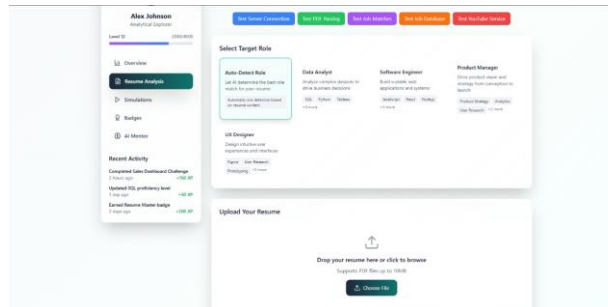


Fig-5 Resume Analysis

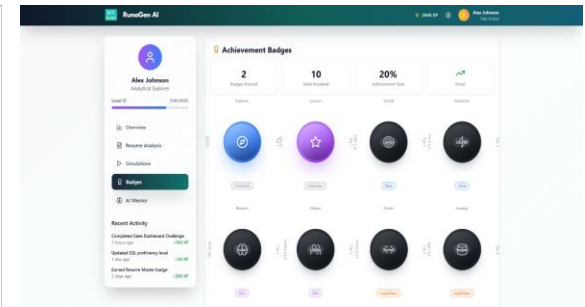
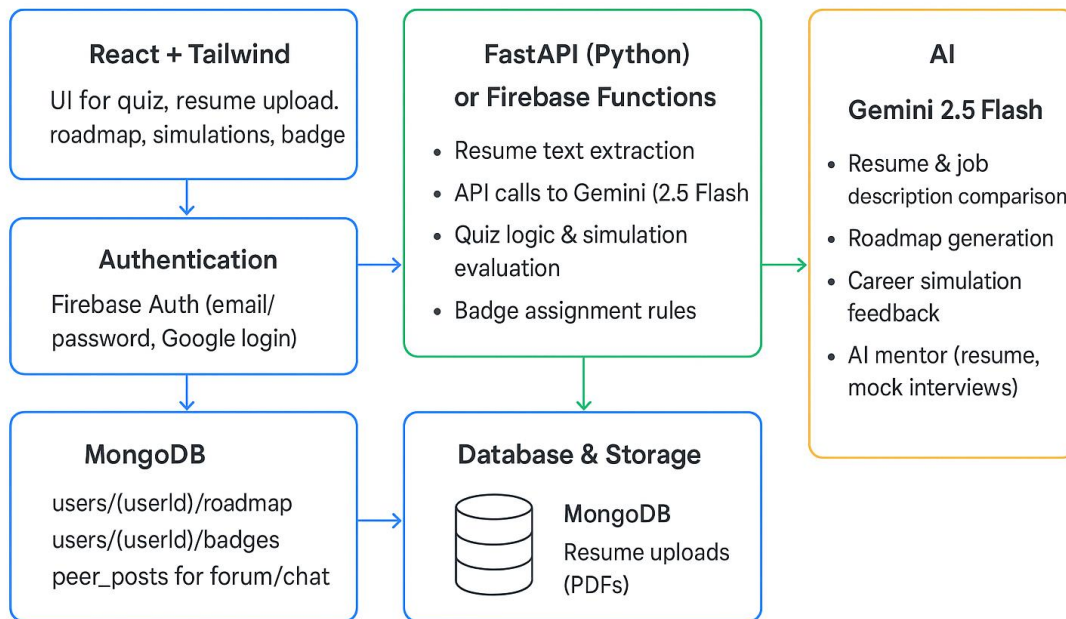


Fig-6 Achievement Badges

Architecture diagram of the proposed solution

AI CAREER COMPANION – ARCHITECTURE



Technologies to be used in the solution:

- **FastAPI backend** → fast and lightweight for smooth workflows.
- **Vertex AI(Gemini 2.5 Flash)** → the AI brain for resumes, roadmaps, and simulations.
- **MongoDB Atlas** → scalable storage for users, roadmaps, and badges.
- **Firebase Auth** → secure and simple user login.
- **Firebase Storage** → handles resume uploads and files.
- **Google Cloud** → reliable hosting and infrastructure backbone.
- **Frontend with React + Tailwind** → clean, modern user experience.
- Together, these tools make the **AI Career Companion** smart, fast, and user-friendly.

Estimated implementation cost (optional):

1. AI Model – Gemini 2.5 Flash (Vertex AI)

Free tier: 15K requests/month free → ₹0
for hackathon.

Scaling: ~₹4–12 per 1K tokens.

2. Database – MongoDB Atlas

Free cluster: ₹0.

Paid (M0 → M2 cluster):

~₹750/month when scaling.

3. Authentication – Firebase Auth

Free up to 50K monthly active users

→ ₹0.

4. File Storage

Firebase Storage: 1GB free → ₹0.

AWS S3 (optional): ~₹1.5/GB/month.

Azure Blob Storage (optional):

~₹1.3/GB/month.

5. Backend – FastAPI on Google Cloud Run

Free tier: ₹0.

Scaling: ~₹1,600–2,500/month.

6. Frontend – React + Tailwind

Open-source → ₹0.

Hosting (Firebase/Vercel): ₹0.

7. Domain Name (GoDaddy / Name.com)

.com or .in domain: ~₹700–1,000/year (~₹60–85/month).

8. Payments – Stripe / PayPal

No monthly fee.

Transaction fee:

Stripe India: ~2% + ₹3 per transaction.

PayPal India: ~4.4% + fixed fee (₹3–5).

MVP demo: ₹0 (only charged on real transactions).

Add as per the requirements for the hackathon:

- **Problem Alignment** – Tackles the gap in career guidance using AI.
- **Innovation** – Personalized career roadmaps powered by **Gemini 2.5 Flash**.
- **Scalability** – Cloud-native (Google Cloud Run + MongoDB Atlas).
- **Feasibility** – Low-cost MVP with free-tier usage during hackathon.
- **User Impact** – Helps students & professionals identify skill gaps.
- **Feature Scope** – AI-driven job role recommendations (LinkedIn-style).
- **Extended Scope** – Direct job applications via integrated job portals.
- **Future Scope** – Payments, advanced job-matching APIs, and gamification.
- **Hackathon Fit** – Rapid prototyping, impactful demo-ready solution.

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Thank you