

Gen AI Exchange Hackathon

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Problem Statement : [Student] Personalized Career and Skills Advisor

ABOUT THE PROTOTYPE

- Our prototype is a Personalized Career & Skills AI Advisor App that helps students discover the right career path based on their skills, interests, and academic strengths.
- Unlike traditional career tests that give generic results, our app uses AI-powered skill mapping and real-time job market insights to create a custom roadmap for each student.
- It not only suggests career options but also guides students with courses, internships, and projects they should pursue to stay relevant in the evolving job market.
- The app is designed to be interactive, affordable, and student-friendly, ensuring career clarity for learners across schools and colleges.

USP (Unique Selling Points):

- AI-driven personalization – dynamic recommendations based on continuous input.
- Integration with job market trends – ensures future-proof career advice.
- Complete skill roadmap – not just a career suggestion, but step-by-step guidance.
- Gamified growth – students earn badges and track progress, making learning engaging.

OPPORTUNITY & DIFFERENTIATION

Q1. How different from existing solutions?

- Existing apps → generic aptitude tests, static results.
- Our app → AI-powered, dynamic, and updated with real-time job market trends.
- Competitors focus only on “what career”; we focus on “career + skill roadmap + resources.”

Q2. How will it solve the problem?

- Analyzes student skills, academics & interests with AI.
- Suggests best-fit career paths aligned with future opportunities.
- Provides step-by-step learning roadmap (courses, projects, internships).
- Tracks progress & ensures students stay on the right path to employability.

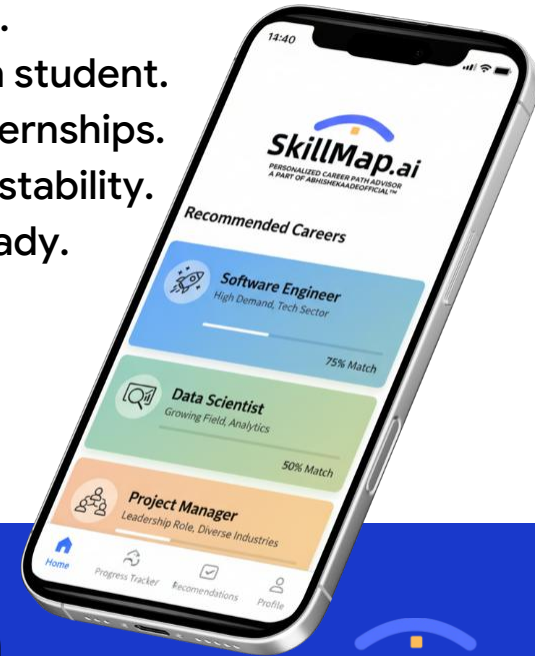
Q3. USP of the Proposed Solution

1. Personalized AI Career Roadmap (not generic).
2. Real-time market alignment – careers recommended based on demand.
3. End-to-end journey – from skill assessment → roadmap → resume/interview prep.
4. Gamified growth & affordability – accessible to every student.

FEATURES

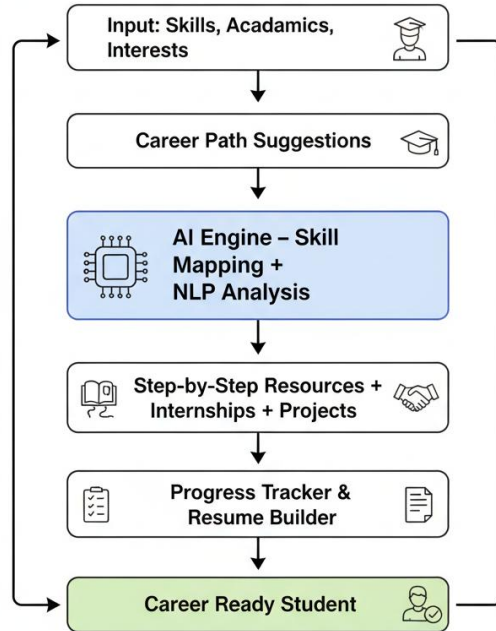
Core Features of Career AI App:

- 🧠 AI Skill & Interest Assessment – quizzes + behavioral analysis.
- 🎯 Personalized Career Path Recommendation – unique to each student.
- 📅 Step-by-step Learning Roadmap – courses, projects, and internships.
- 📊 Job Market Insights – trends, demand forecasts, and career stability.
- 📄 AI Resume Builder & Interview Prep – makes students job-ready.
- 🏆 Gamified Progress Tracker – skill badges, career milestones.
- 👥 Mentor & Peer Community (future expansion).

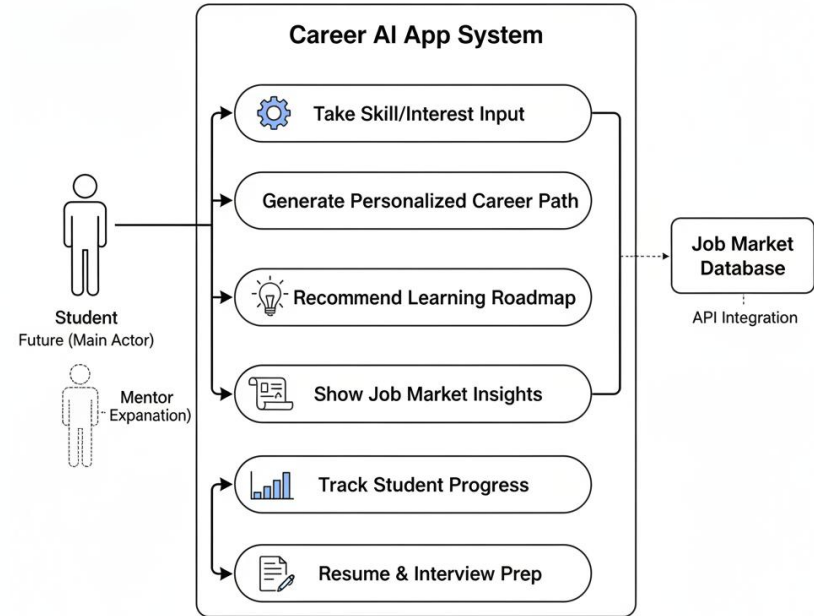




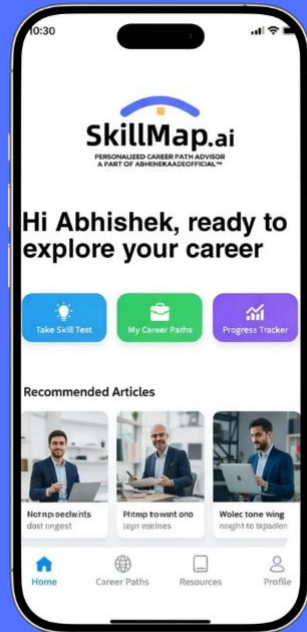
Student Journey



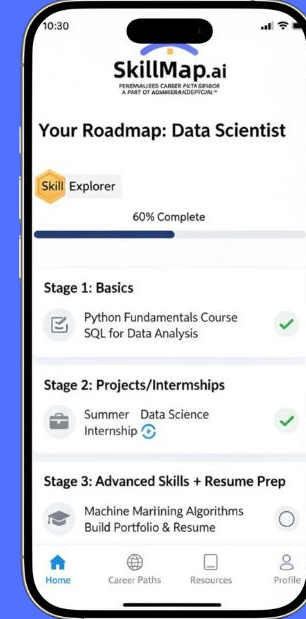
Use Case Diagram



SOME MOCKUP UI



HOME / DASHBOARD

CAREER
RECOMMENDATION SCREEN

ROADMAP SCREEN

ARCHITECTURE DIAGRAM (TECH STACK)

1. Frontend (Mobile App) → Flutter/React Native.
2. Backend (Cloud) → Firebase, Firestore DB.
3. AI/ML Layer → Google Cloud Vertex AI + Gemini API.
4. Integrations → EdTech APIs (Coursera, Udemy), Job APIs (LinkedIn).
5. Hosting → Google Cloud Run.

TECHNOLOGIES USED

1. Frontend (Mobile App):

- Flutter or React Native → for cross-platform mobile app.

2. Backend & Database:

- Firebase / Firestore (Google Cloud) → real-time database, authentication.
- Cloud Functions → serverless execution for skill analysis requests.

3. AI/ML Layer:

- Google Cloud Vertex AI → to train & deploy ML models for skill mapping.
- Google Gemini API (PaLM 2) → for NLP (analyzing interests, resume suggestions, interview Q&A).

4. Integrations & APIs:

- Coursera / Udemy APIs → recommended learning resources.
- LinkedIn / job APIs → fetch job market trends.

5. Other Tools:

- GitHub → version control & project repository.
- Google Cloud Run → hosting & deployment.

ESTIMATED IMPLEMENTATION COST

1. Cloud & AI Services: ₹1,500 – ₹3,000
2. Development Tools & Testing: Free
3. Hardware (optional): ₹2,000 – ₹3,000

Total Estimated Cost: ₹2,000 – ₹6,000

*only for small scale.

Disclaimer : Costs are estimates for prototype implementation and may vary in real-world deployment.

MARKET OPPORTUNITY & FEASIBILITY

1. Target Users:

- Class 9–12 students
- College students
- Fresh graduates

2. Market Size (India):

- 300M+ students need structured career guidance
- 50% of graduates report career-skill mismatch

3. Business Model:

- **Freemium:** Free skill test + career suggestions
- **Premium (₹99–199/month):** Detailed roadmap, resume builder, interview prep, mentor connect

4. Scalability:

- Low-cost cloud infrastructure (Google Cloud credits at start)
- High student adoption potential due to affordability

IMPACT & FUTURE SCOPE

1. Immediate Impact:

- Personalized guidance → reduces confusion in career decisions
- Skill-building roadmap → improves employability

2. Future Scope:

- Mentor marketplace (students connect with experts)
- Internship & project portal (real-world exposure)
- AI Interview Bot → mock interviews & feedback
- Expansion to global student community

COMPARISON CHART: SKILLMAP.AI VS EXISTING SOLUTIONS

Criteria	Existing Career Apps	SkillMap.ai (Our App)
Personalization	Generic aptitude tests, one-time results	AI-driven dynamic personalization, updates with continuous input
Career Guidance	Suggests only career options	Suggests careers + full skill-building roadmap
Job Market Alignment	No connection to current demand	Real-time market insights via APIs (LinkedIn, job trends)
Learning Integration	Links to random courses	Curated courses/projects from Coursera, Udemy, etc.
Progress Tracking	Absent	Gamified progress, badges, and resume builder
Accessibility	Expensive or one-time fee	Freemium model + affordable premium (₹99–199/month)
Technology	Limited cloud usage	Powered by Google Cloud (Vertex AI, Gemini, Firebase, Cloud Run)

Any Other Discussion:

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Thank you