SMART INDIA HACKATHON 2025

TITLE PAGE

- **Problem Statement ID – 25094**
- **Problem Statement Title-** One-Stop Personalized Career & Education Advisor
- **Theme-** Smart Education
- **PS Category- Software**
- **Team ID- HariSentinels**
- **Team Name - HariSentinels**

Proposed Solution (Describe your Idea/Solution/Prototype)

Your HariSentinels

EduCursus

Students struggle to choose the right career path due to lack of guidance – EduCursus solves this with AI + psychometrics + gamification.

•Interactive Aptitude & Interest Quiz for tailored career suggestions.

•Psychometric analysis incorporated for deep personalized insights.

•Dynamic Course-to-Career Mapping with intuitive visual flowcharts.

•Location-based Nearby College Directory highlighting programs and facilities.

•AI-Driven Personalized Dashboard offering adaptive career & skill recommendations.

•Real-Time Progress Tracking and milestone-based motivation(Gamification approach help engage and reward student progress)

•Conversational AI Mentor for instant, personalized career guidance(Chatbot).

•Integration with leading online course platforms for seamless upskilling.

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TECHNICAL APPROACH

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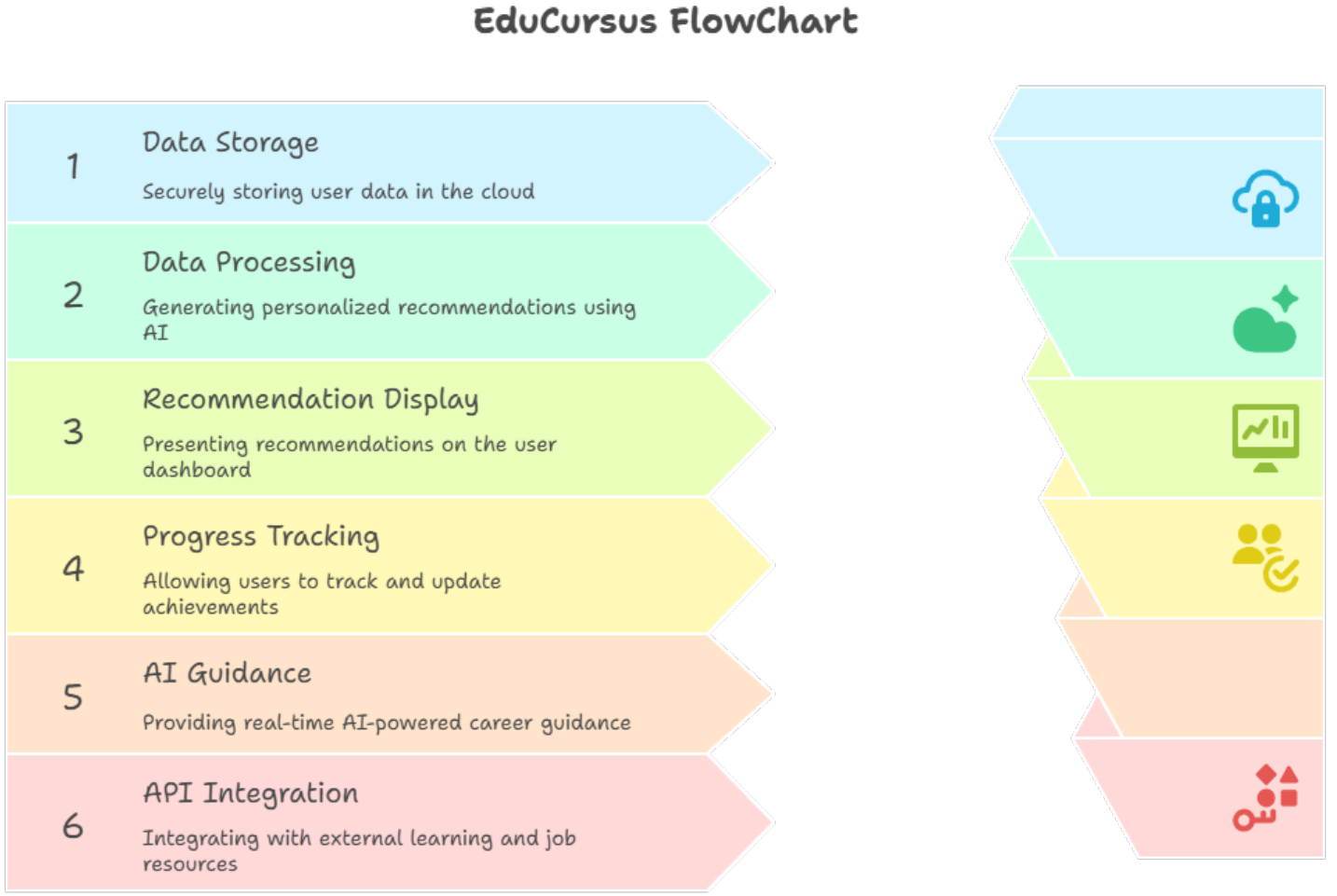
TechStack Used:-

Frontend: React + Tailwind + Firebase

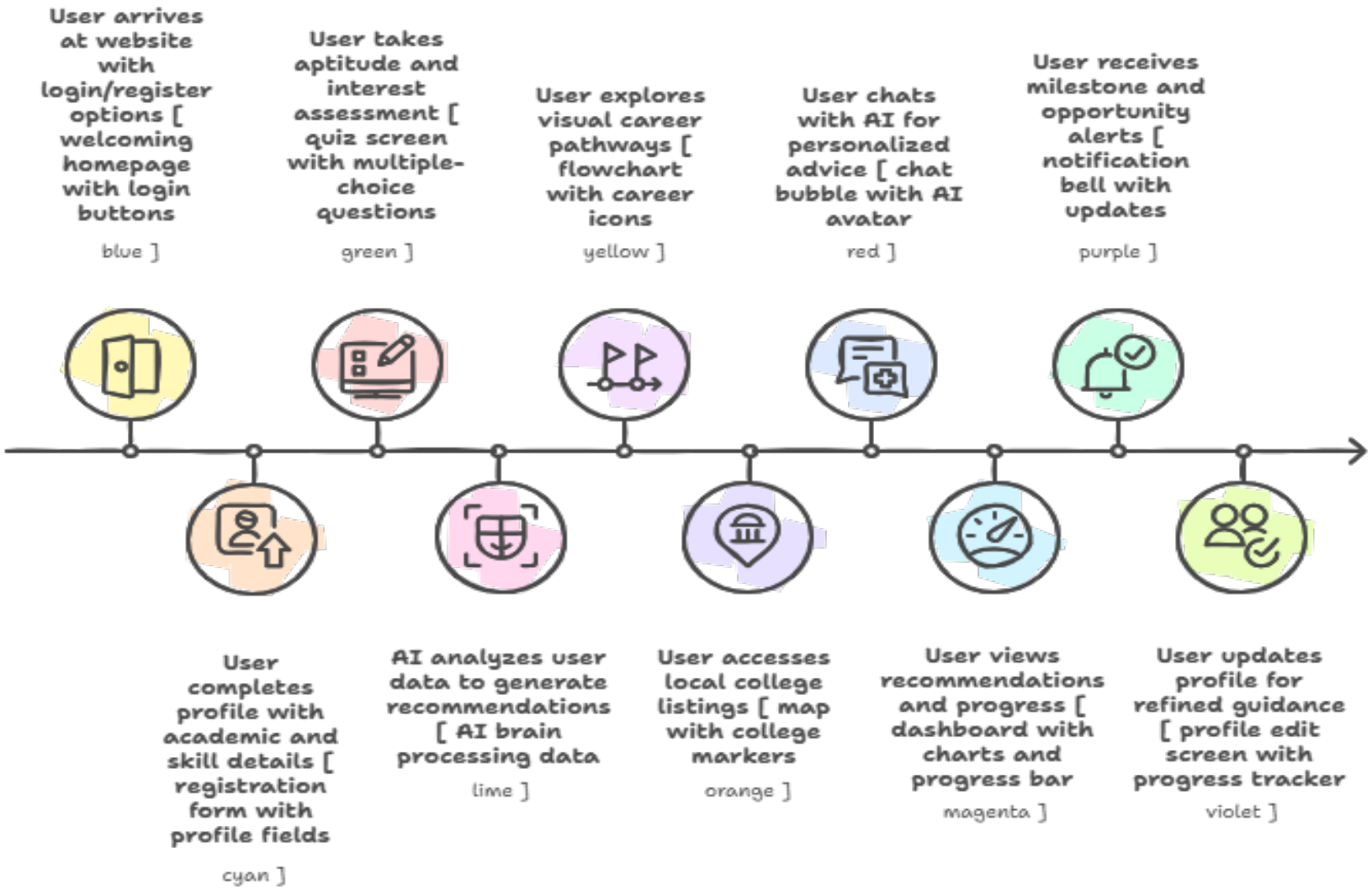
HostingBackend: FastAPI + Cloud Run + FirestoreAI/ML: Vertex AI (Gemini + Embeddings + Vector Search) or Self trained models(LLM & Prediction)

Database: BigQuery + Dataflow + Job Data

APIsInfra: Google Cloud (Workflows, Functions, IAM, Monitoring)



User Journey on EduCursus



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FEASIBILITY AND VIABILITY

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Feasibility

- Built on proven, scalable Google Cloud infrastructure with enterprise-grade security
- Utilizes managed AI services minimizing complex model development overhead
- Cloud-native design allows rapid deployment, easy maintenance, and dynamic scaling
- Open APIs and frameworks enable smooth integration with learning platforms and job data sources
- Frontend technologies (React, Tailwind, Firebase) support cross-platform access and quick iterations
- MVP focus on core features reduces time-to-market and development costs

Viability

- Addresses a large, unmet need in Indian education and career guidance market
- Personalized AI recommendations improve student outcomes and lifelong skill development
- Potential for revenue through premium features, career services partnerships, and data insights
- Scalable architecture supports expansion to new markets and user segments
- Strong AI-powered differentiation offers competitive advantage and innovation leadership

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IMPACT AND BENEFITS

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Impact

- Empowers students with personalized career guidance
- Bridges gap between education & job market
- Boosts confidence, reduces indecision & dropouts
- Democratizes mentorship & career resources
- Promotes skill development for future roles

Benefits

- Tailored recommendations save time & effort
- Dynamic roadmaps evolve with progress & trends
- 24/7 interactive AI mentor support
- Seamless upskilling via learning platform integration
- Scalable platform with continuous improvement

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RESEARCH AND REFERENCES

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Research:-

Importance of Career Guidance

•Personalized counseling boosts satisfaction, skill alignment & reduces dropouts *(NCERT, 2023)*

AI in Education

•AI platforms improve skill recommendations & mentorship access *(WEF, 2024)*

Psychometric Assessments

•Enhance career fit, motivation & outcomes *(JVB, 2023)*

Cloud & AI Scalability

•Cloud AI enables scalable, secure & cost-effective platforms *(Google Cloud, 2025)*

Data Privacy & Ethics

•Compliance with PDP Bill & GDPR ensures student data security *(DSCI, 2024)*

Key References:-

- NCERT Report on Career Guidance in Indian Schools, 2023
- World Economic Forum: AI in Education Report, 2024
- Journal of Vocational Behavior, “Psychometric Tools for Career Development,” 2023
- Google Cloud Vertex AI Documentation, 2025,Hugging Face Website.