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AI for Bharat Hackathon

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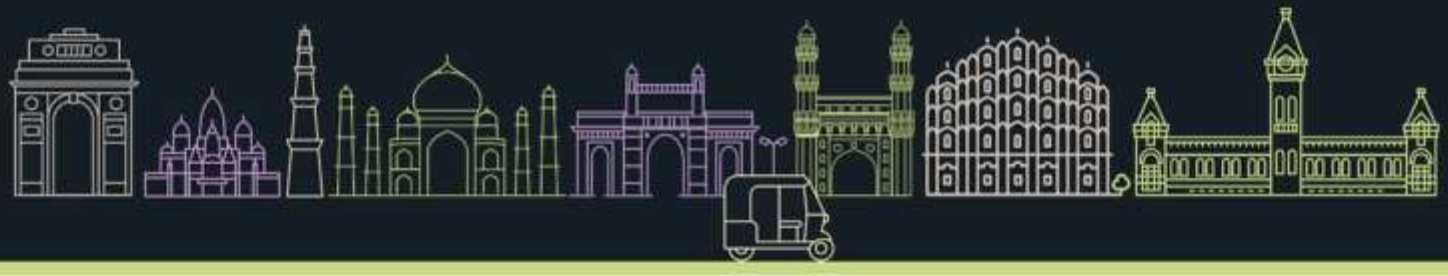


Team Name : techbuilders

Team Leader Name : Shivam Yadav

Problem Statement : Lack of accessible career guidance and skill roadmap for first-gen learners in Tier-2 and Tier-3 regions

OVERVIEW:

- SkillBridge AI is an AI-powered career and skill guidance platform designed for first-generation learners.
- It acts as a digital mentor that recommends suitable career paths, identifies skill gaps, and generates personalized learning roadmaps using free educational resources.
- Built using AWS AI services, the platform aims to reduce career confusion and improve employability for underserved students.

How different is it from existing solutions?

- Focuses specifically on first-generation learners
- Provides personalized AI-driven career guidance instead of generic advice
- Multilingual support for accessibility
- Cloud-native and scalable for national deployment

How will it solve the problem?

- Helps students make informed career decisions
- Reduces skill mismatch and unemployment
- Provides structured, free learning pathways

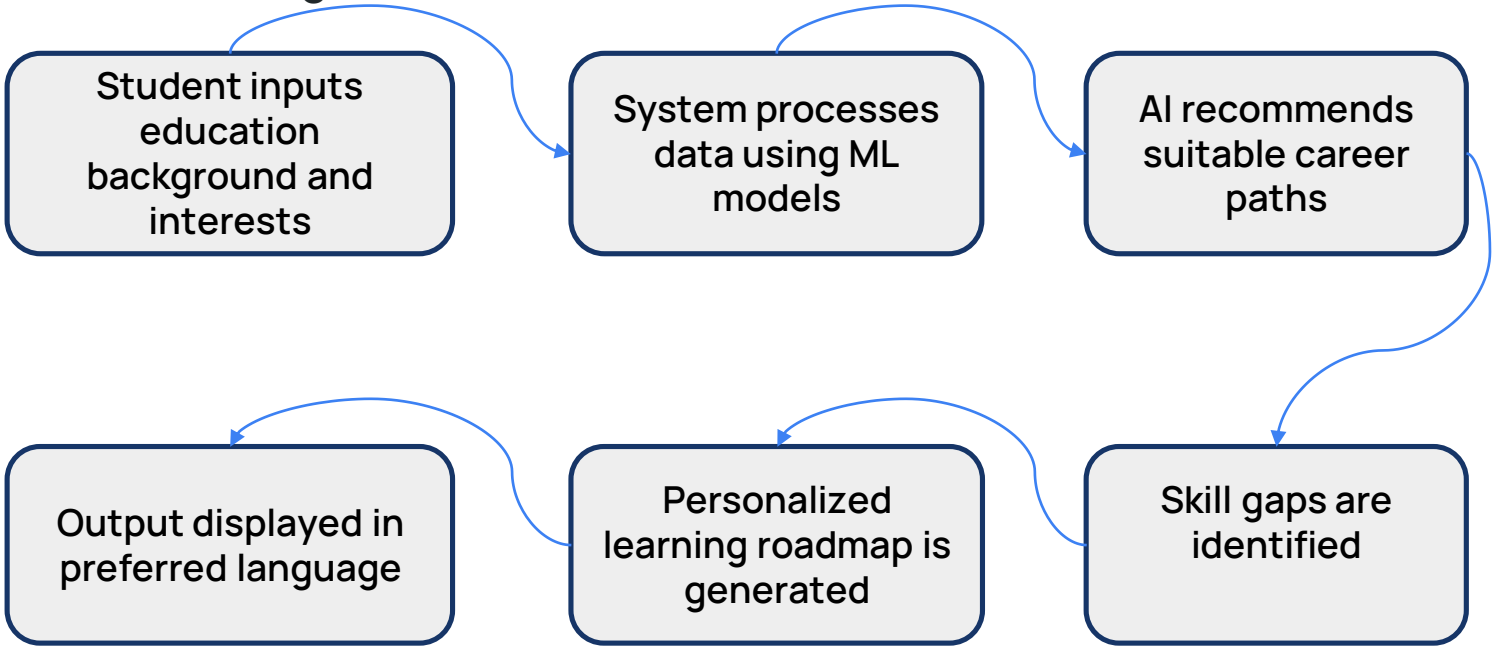
USP of the Solution:

- AI-powered personalized career mentor
- Responsible AI with explainable recommendations
- Low-cost, scalable AWS architecture

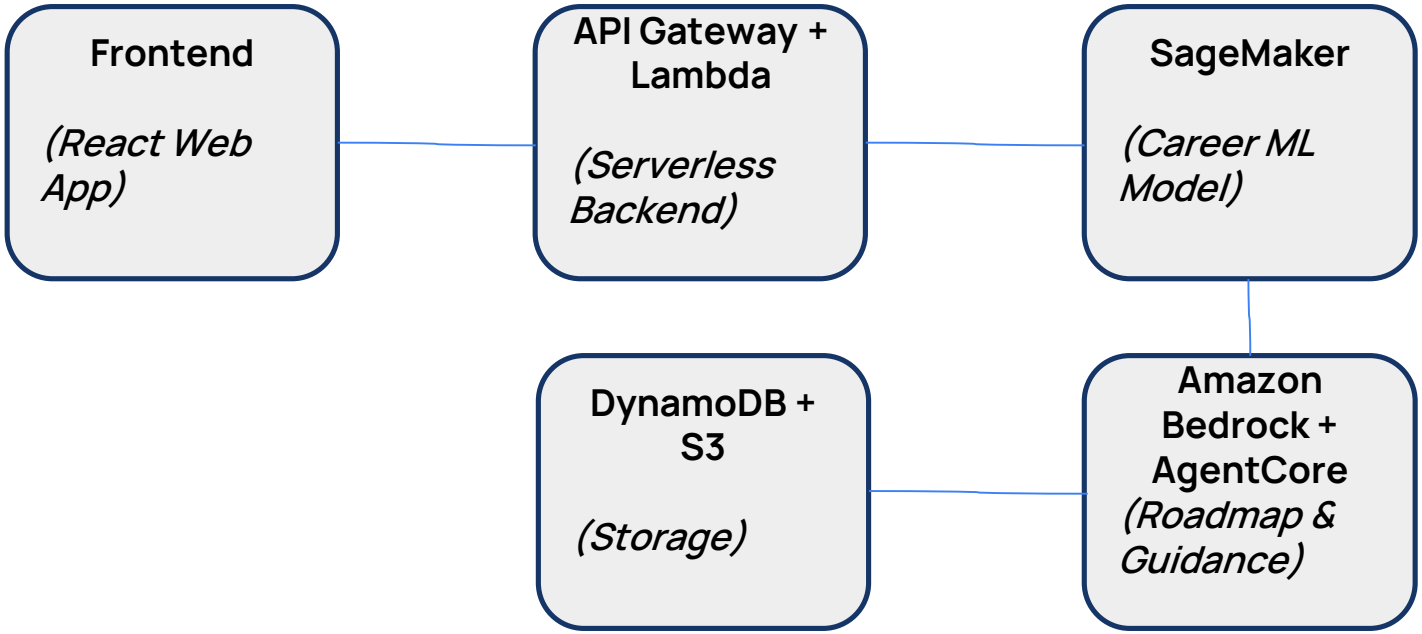
Key Features:

- AI-based career recommendation engine
- Skill gap analysis for selected career paths
- Personalized skill development roadmap
- Curated free learning resources (MOOCs, docs)
- Multilingual support (English + Hindi)
- Mobile-first web interface

Process flow diagram :



Architecture diagram of the proposed solution:



Technologies to be used in the solution:

AI & ML:
- Amazon SageMaker
- Amazon Bedrock
- Amazon Bedrock Agent Core

Cloud & Backend:
- AWS Lambda
- Amazon API Gateway
- Amazon DynamoDB
- Amazon S3
- Amazon Translate

Frontend:
- React / HTML-CSS-JS

Estimated implementation cost:

- Uses AWS Free Tier for MVP
- Serverless architecture minimizes operational cost
- Estimated MVP cost: **<$10/month**
- Scalable to national deployment with pay-as-you-go model

Impact:

Social Impact:

- Improves career awareness for underserved students
- Reduces skill mismatch and unemployment
- Promotes inclusive education and digital mentorship

Future Scope:

- Integration with job portals
- Mentor matching system
- Government education platform integration

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Thank You