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ASHA HACKATHON 2025

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Asha AI - Career Companion for Women

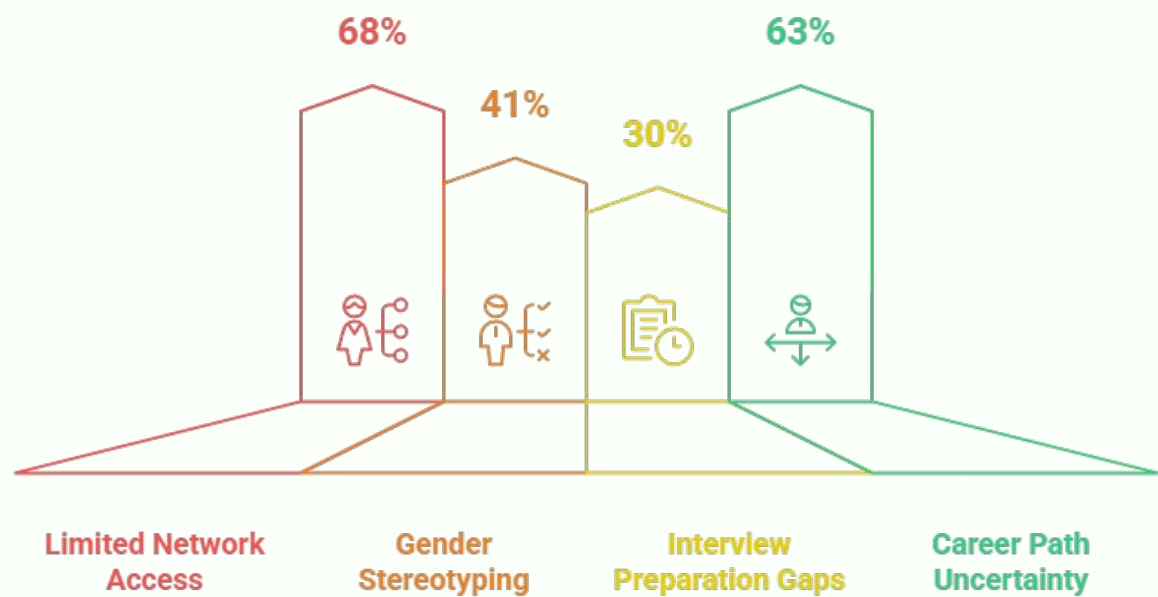
Team - Vega



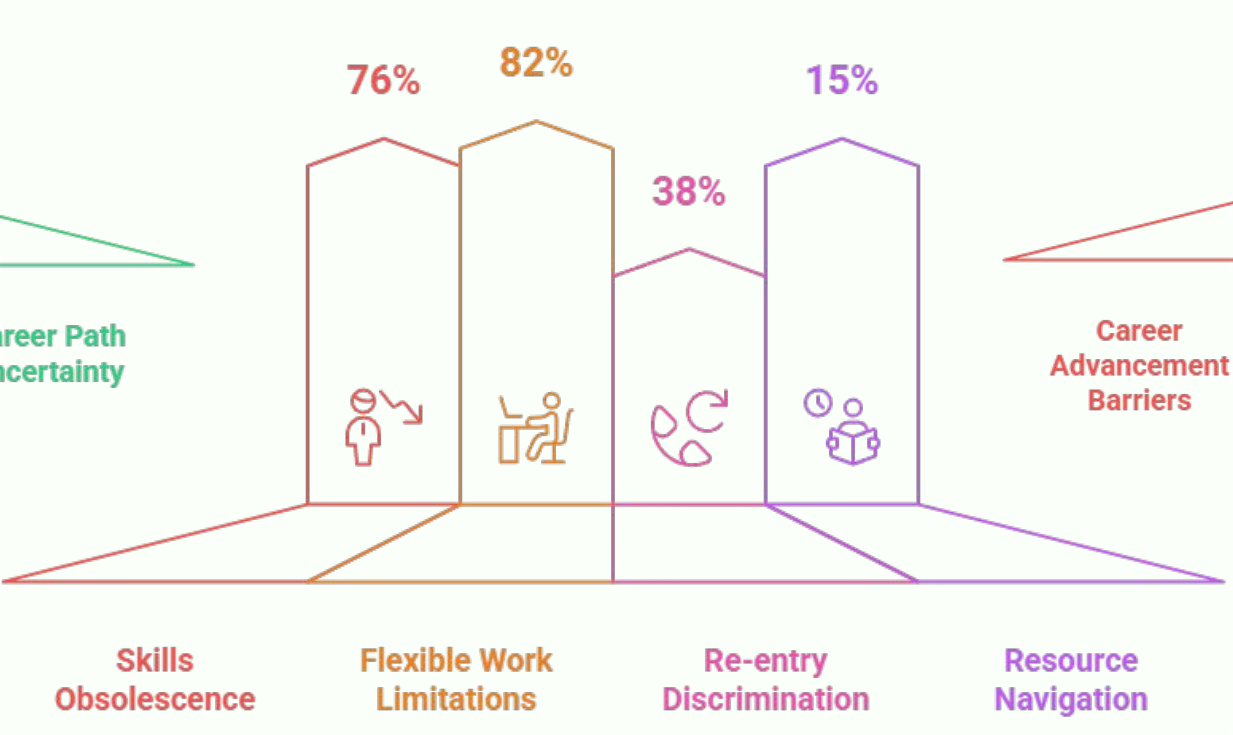
Presented by Nandini Kuppala (Team Lead)

Career Challenges faced by women

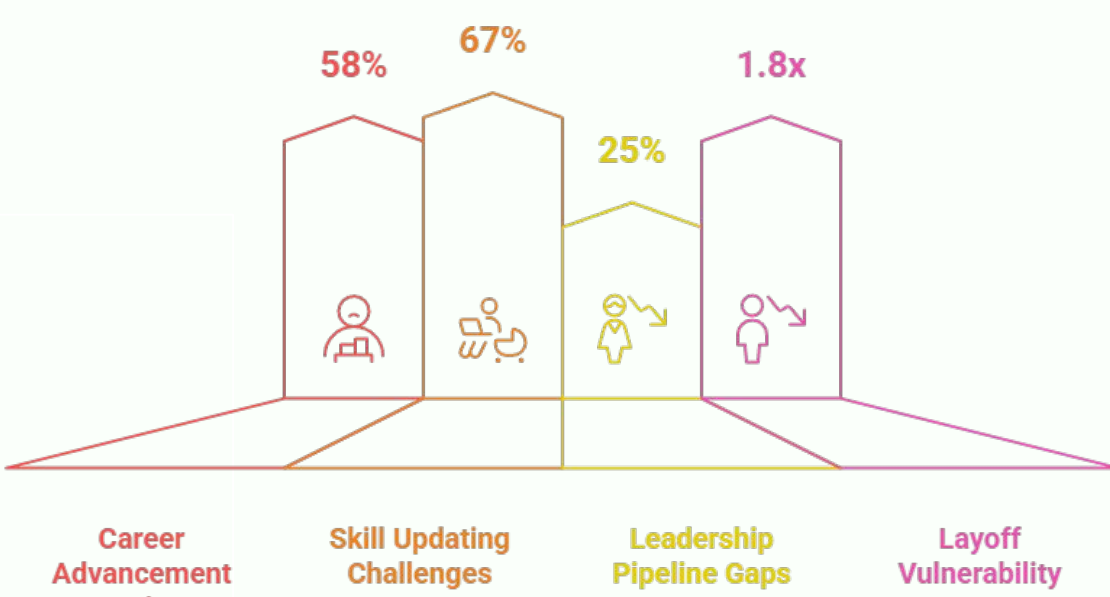
Starters



Restarters



Raisers



Solutions offered by Asha AI

1

Career Reentry Challenges for Women After Breaks

Explore tailored opportunities and resources effortlessly.

2

Finding right events and communities

Suggests with groups and networks that support your aspirations.

3

Limited Access to Personalized Upskilling Resources

curated learning resources from YouTube, Udemy, and Coursera etc

4

Multiturn Conversation Handling

proposed a novel dual-agent architecture with reinforcement learning



Core Features 🙌



USP's of the Proposed Solution

1

Multi-agent Recommendation Engine powered by RAG for personalized career guidance

2

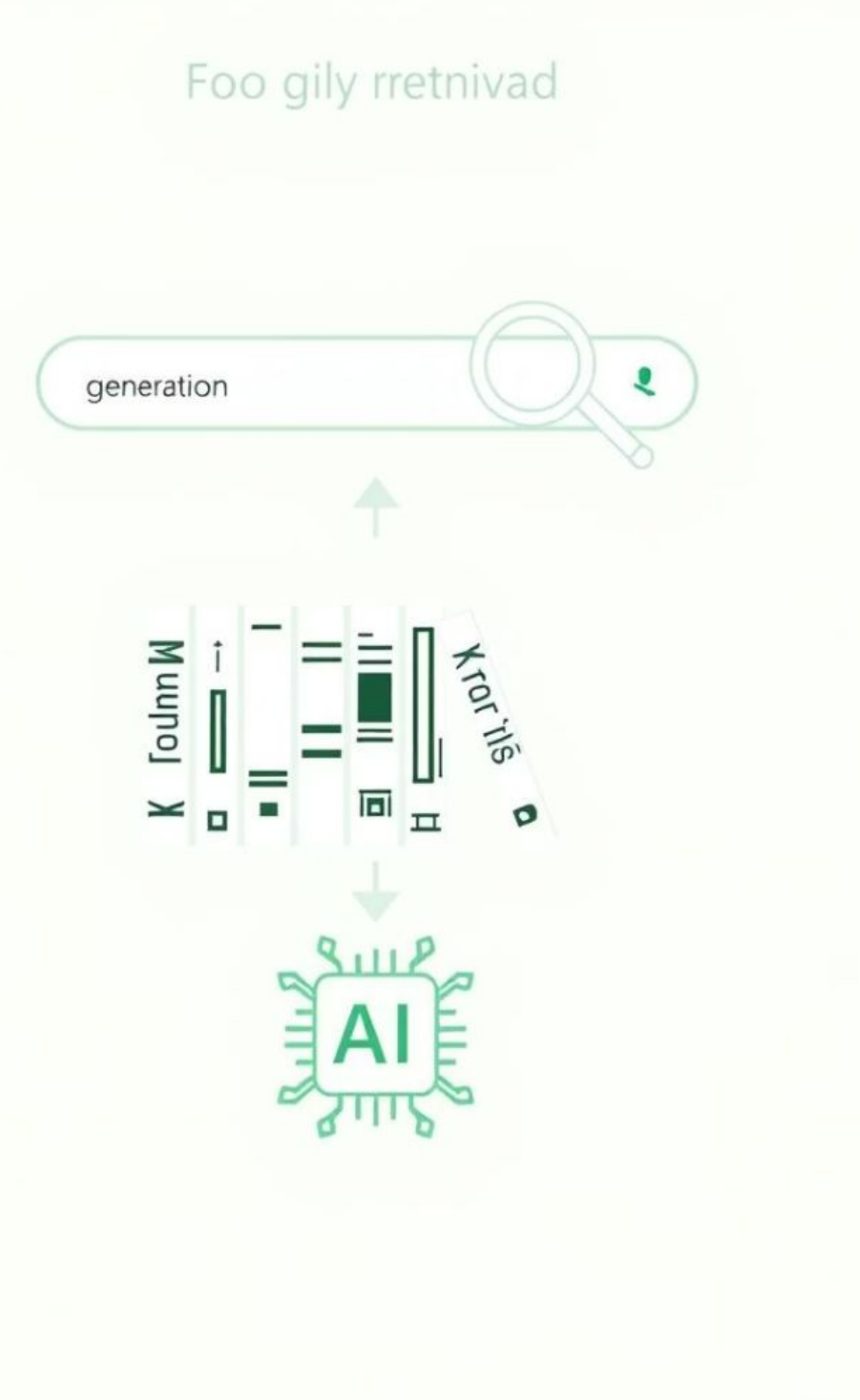
Cost- Optimized LLM Orchestration for efficient multi-turn conversations

3

End-to-end career companion with resume builder, interview prep and roadmap tools

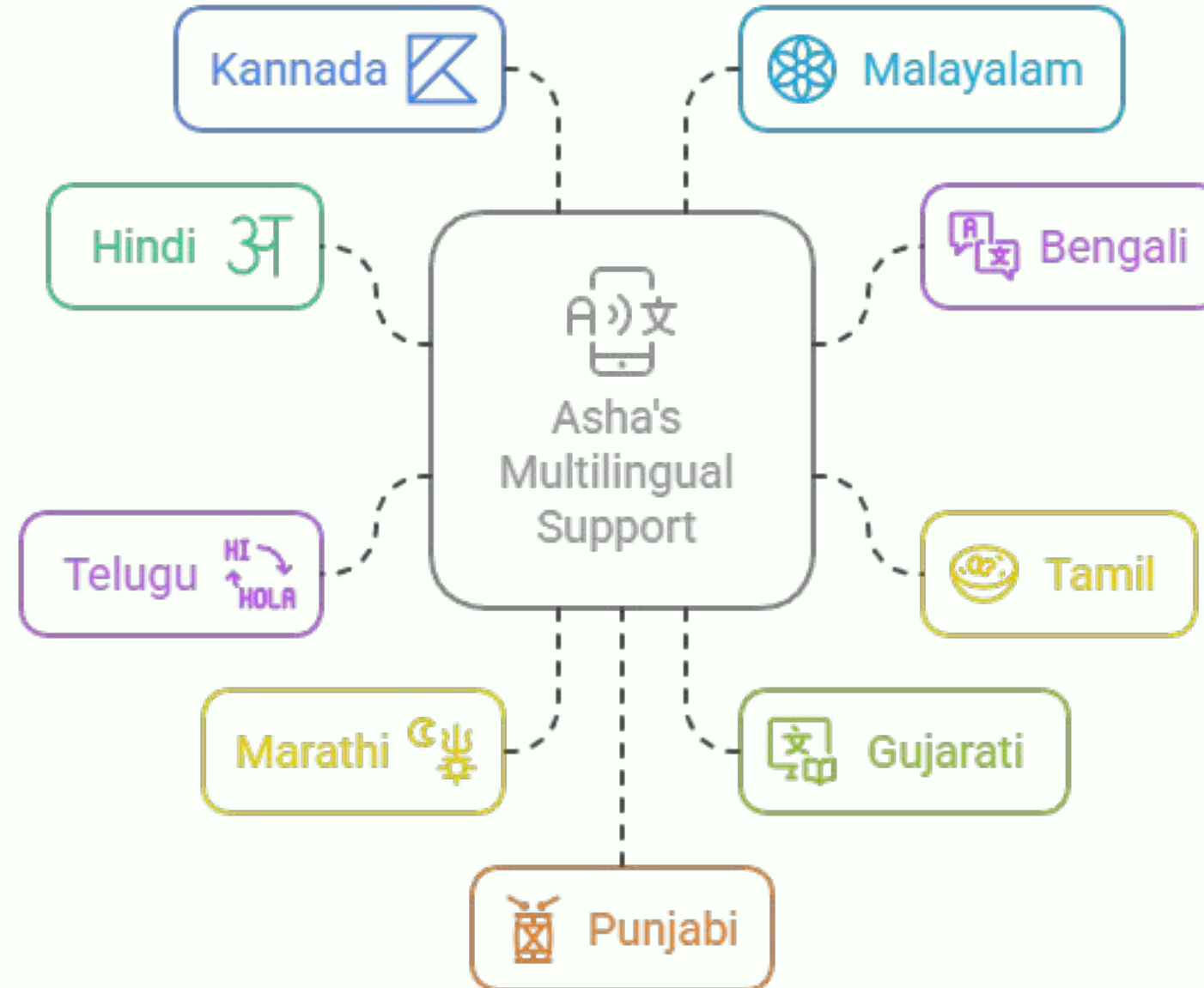
4

Multilingual voice support in 9 indian languages & English





Multi-lingual support (9 Indian Languages + English)



Career Tools to Build Confidence

Resume Creation

Easy-to-use templates and tips to craft standout resumes tailored for job roles.

Skill Assessment

Evaluate skills with interactive tests to identify strengths and growth areas.

Career Roadmapping

Personalized plans to map career goals and milestones step-by-step.



Personalized Career Roadmapping

1

Goal Setting

Defines personalized career objectives.

2

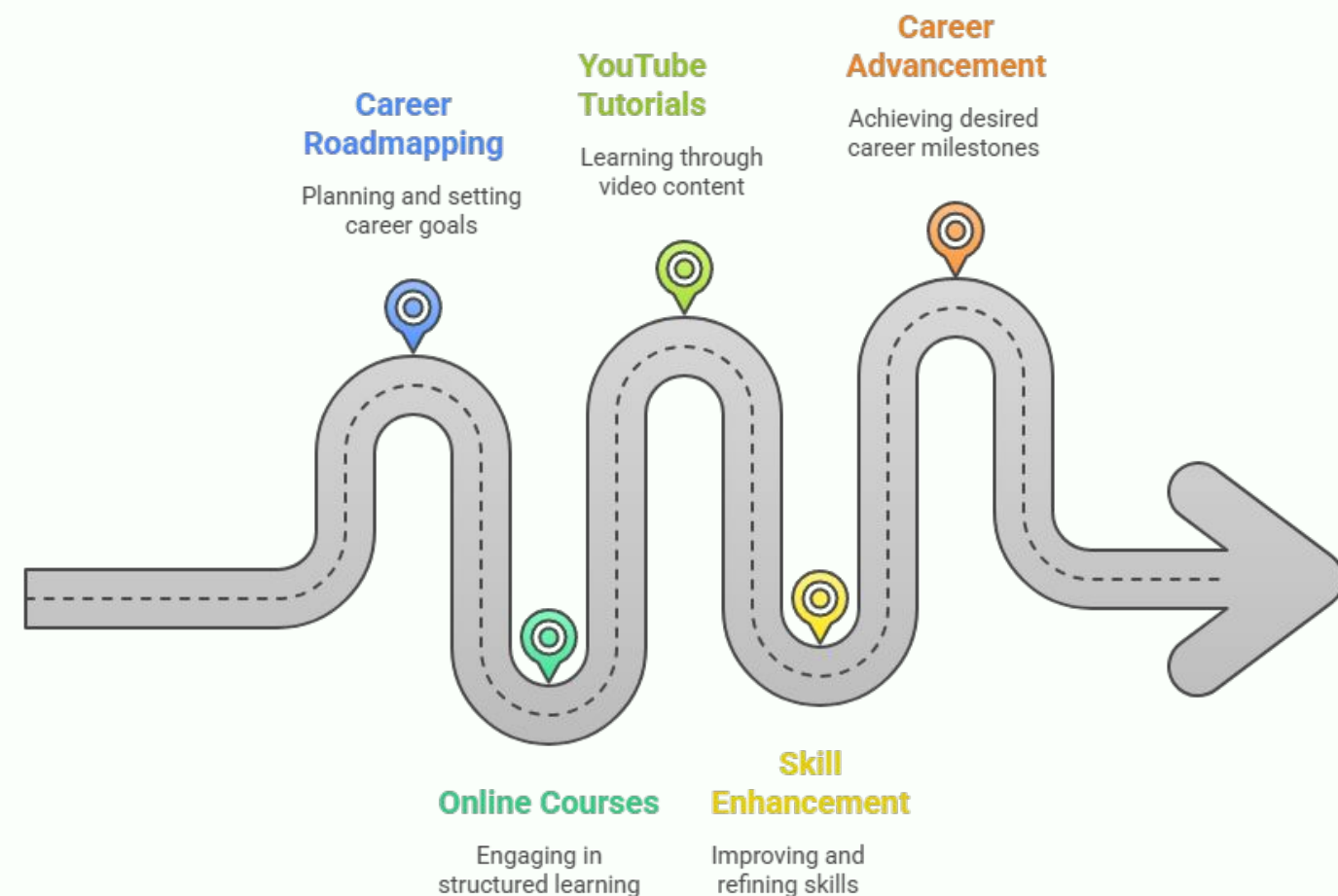
Skill Milestones

Tracks progress with tailored learning resources.

3

Action Plan

Step-by-step roadmap with timelines and resources.



ATS-Friendly Resume Builder



Input Job Description

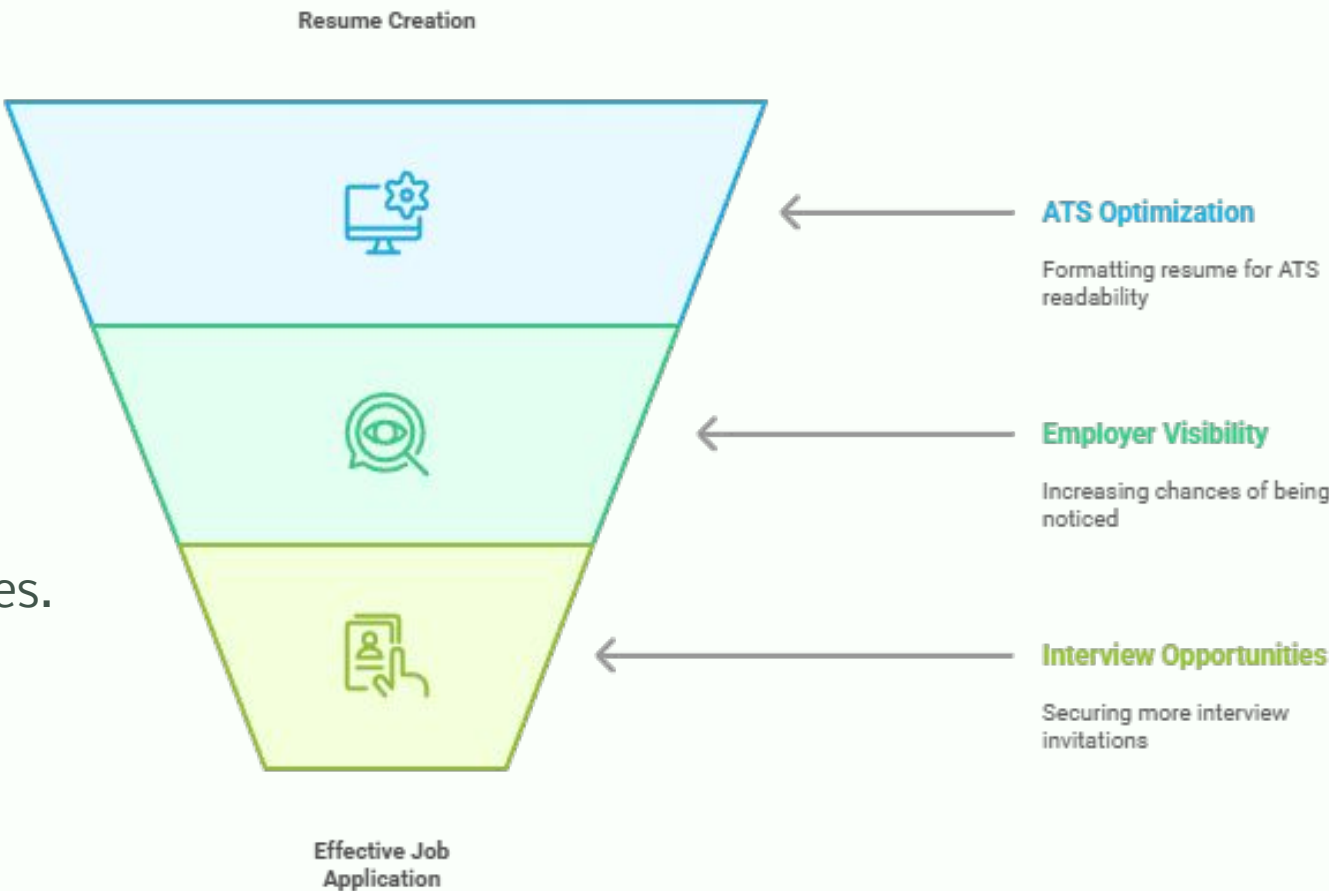
Users enter job details to tailor resumes.

Profile Matching

Builds resumes optimized for ATS based on user profiles.

Increase Interview Chances

Enhances job application success with tailored resumes.





Advanced AI & Security Features

Custom NLP Pipeline

Bias detection and response quality control.

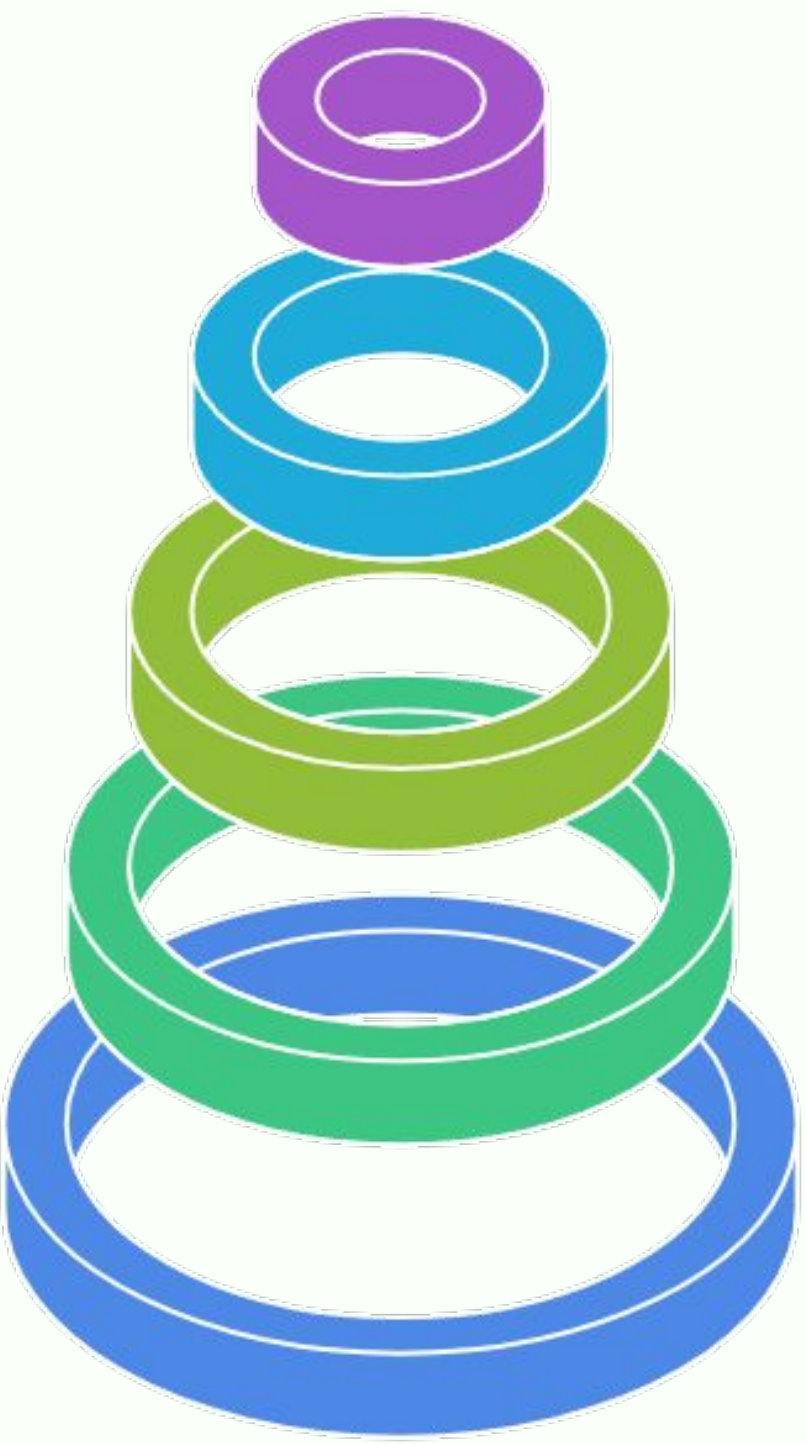
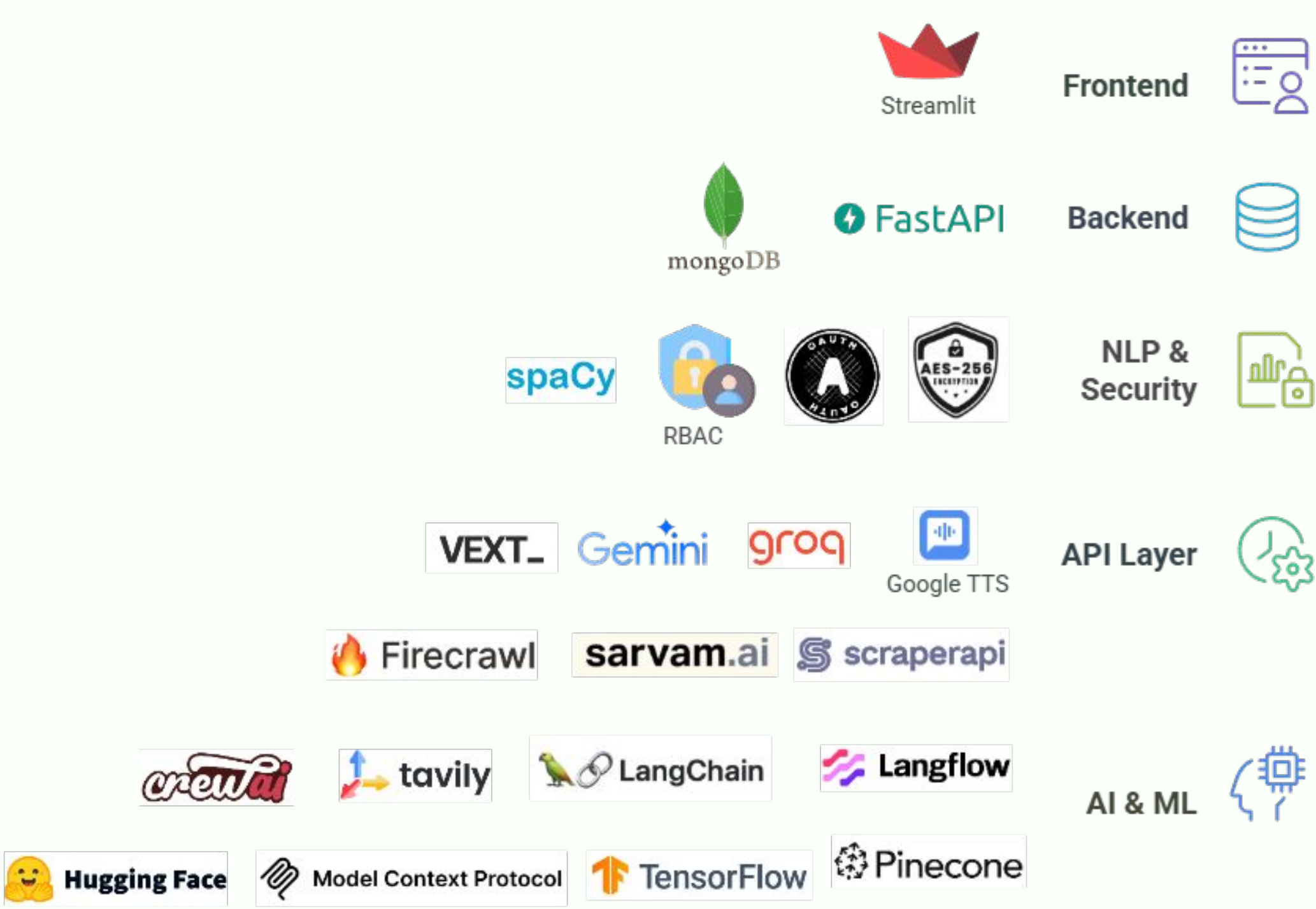
Secure Data Handling

Encryption and role-based access controls protect user data.

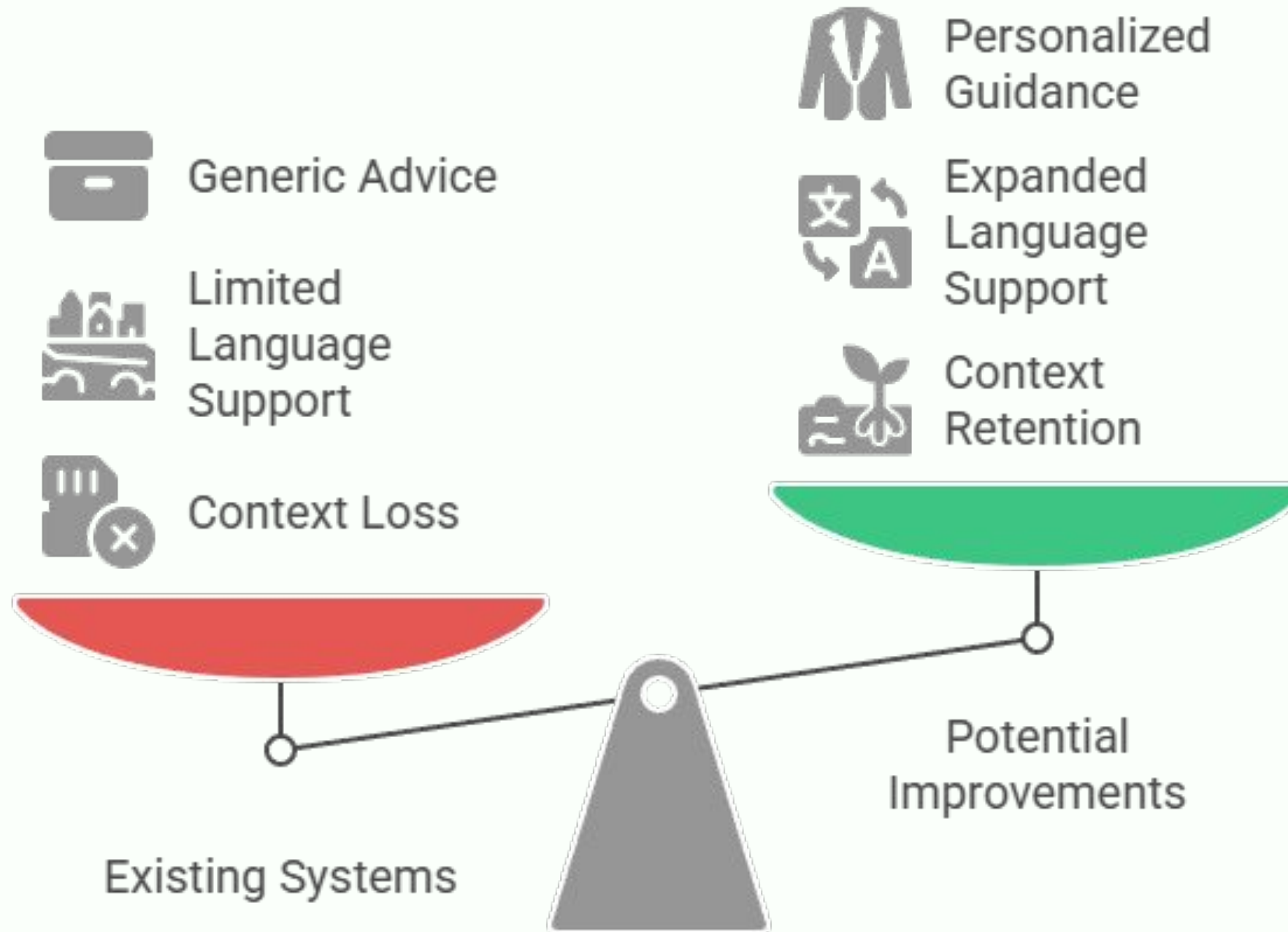
Continuous Learning

Reinforcement learning improves system from user interactions.

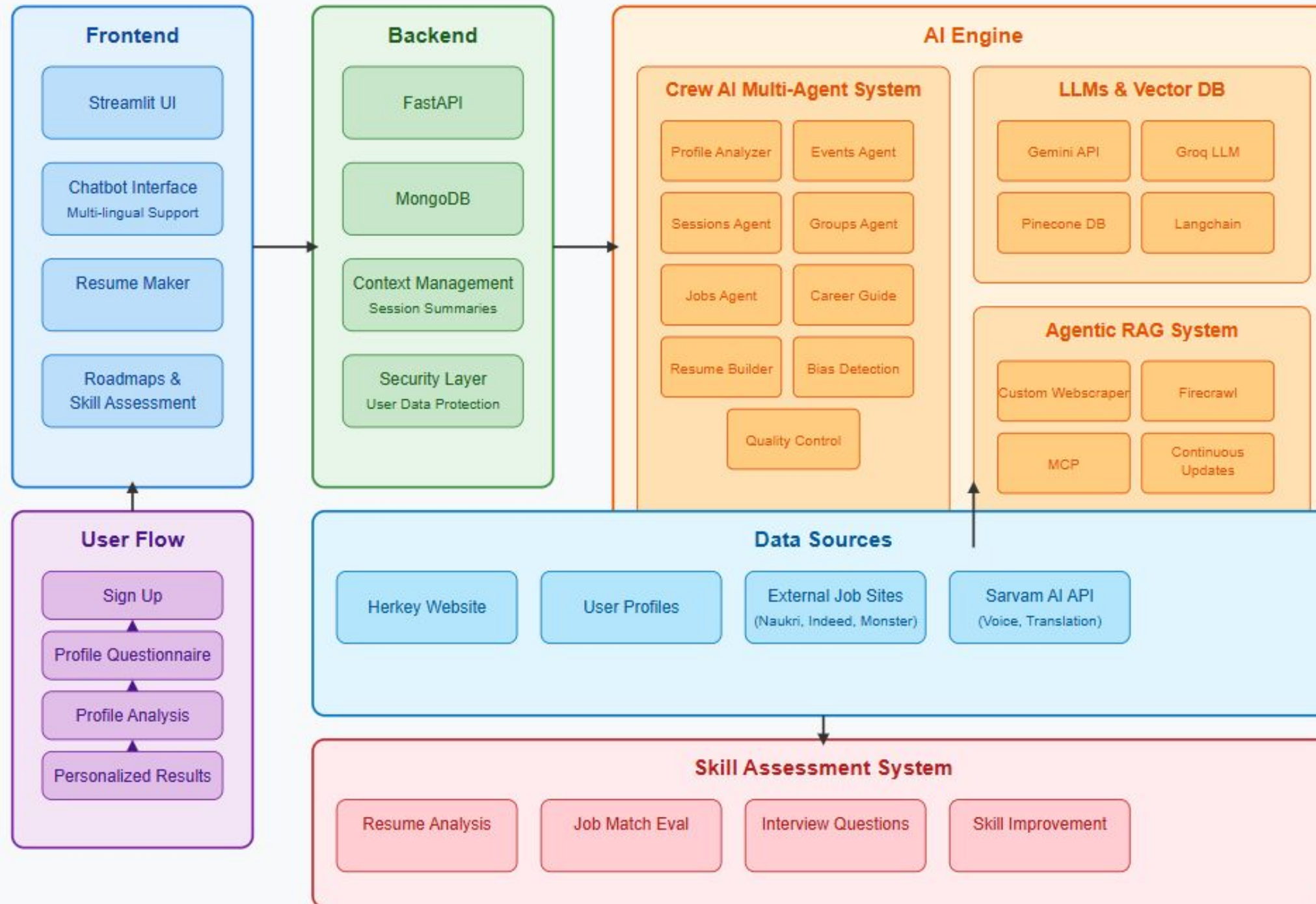
Tech Stack Overview



Addressing technical limitations in Existing Systems

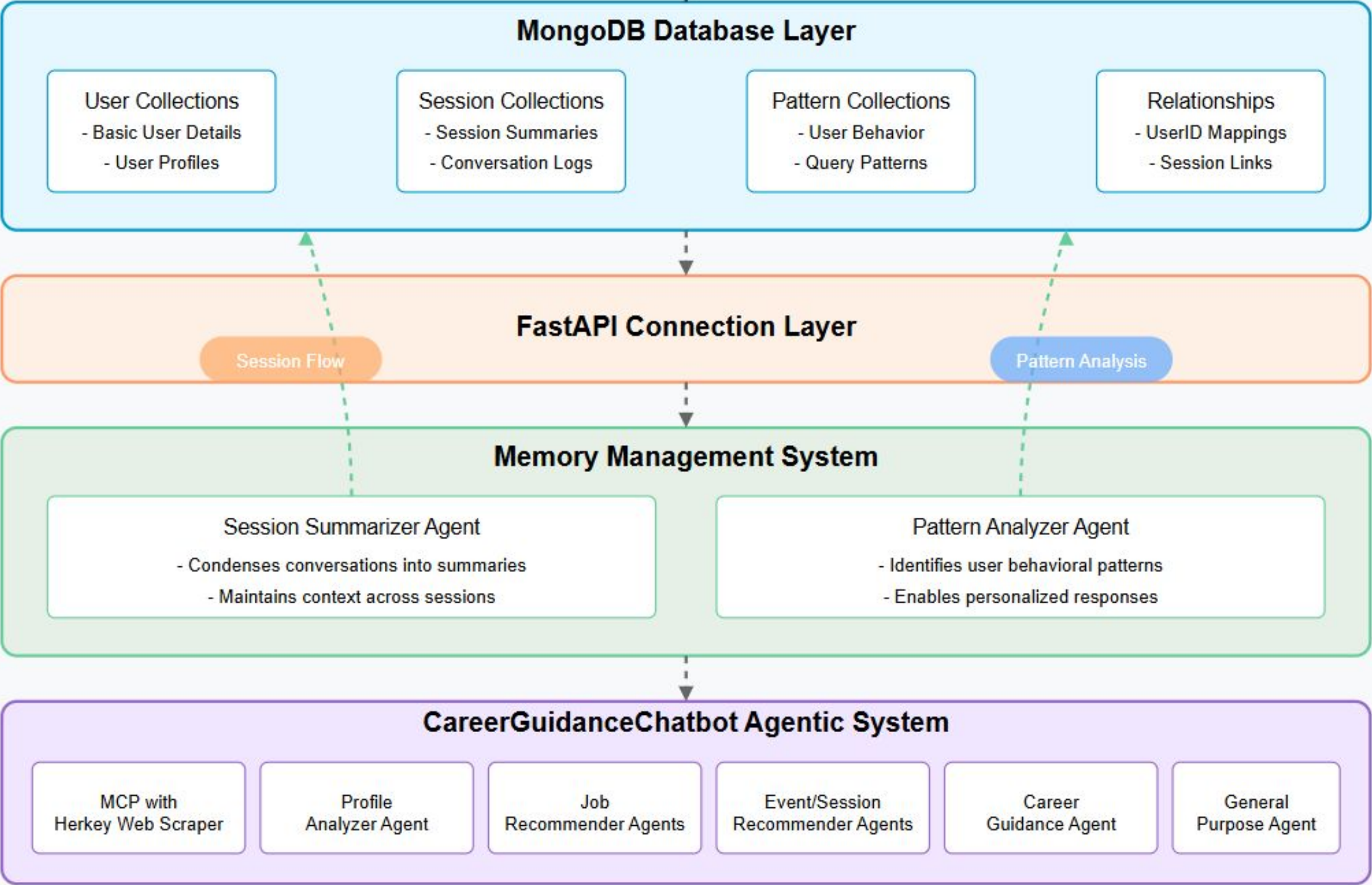


Asha AI Chatbot Architecture

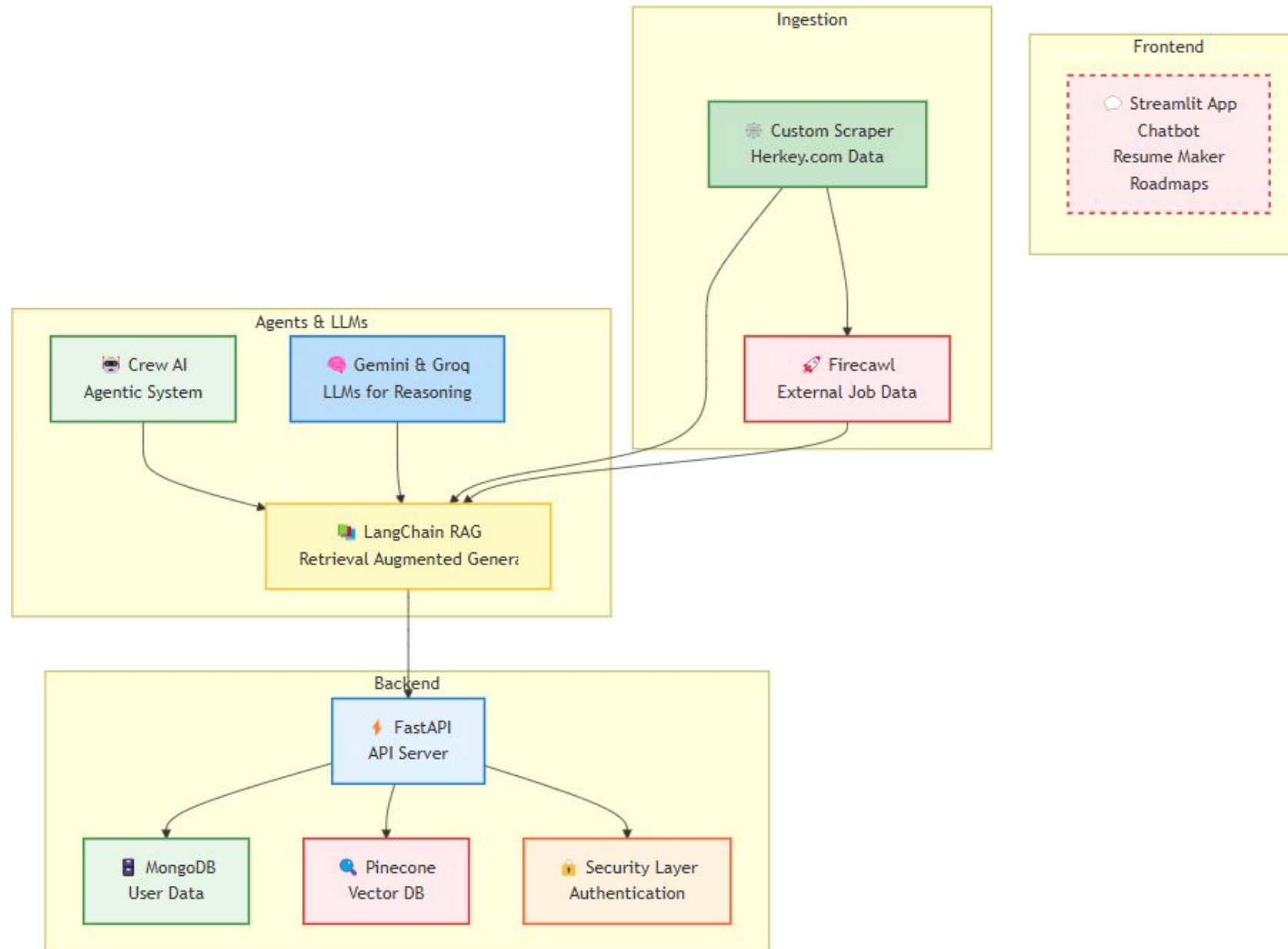


ASHA AI Chatbot Memory Architecture

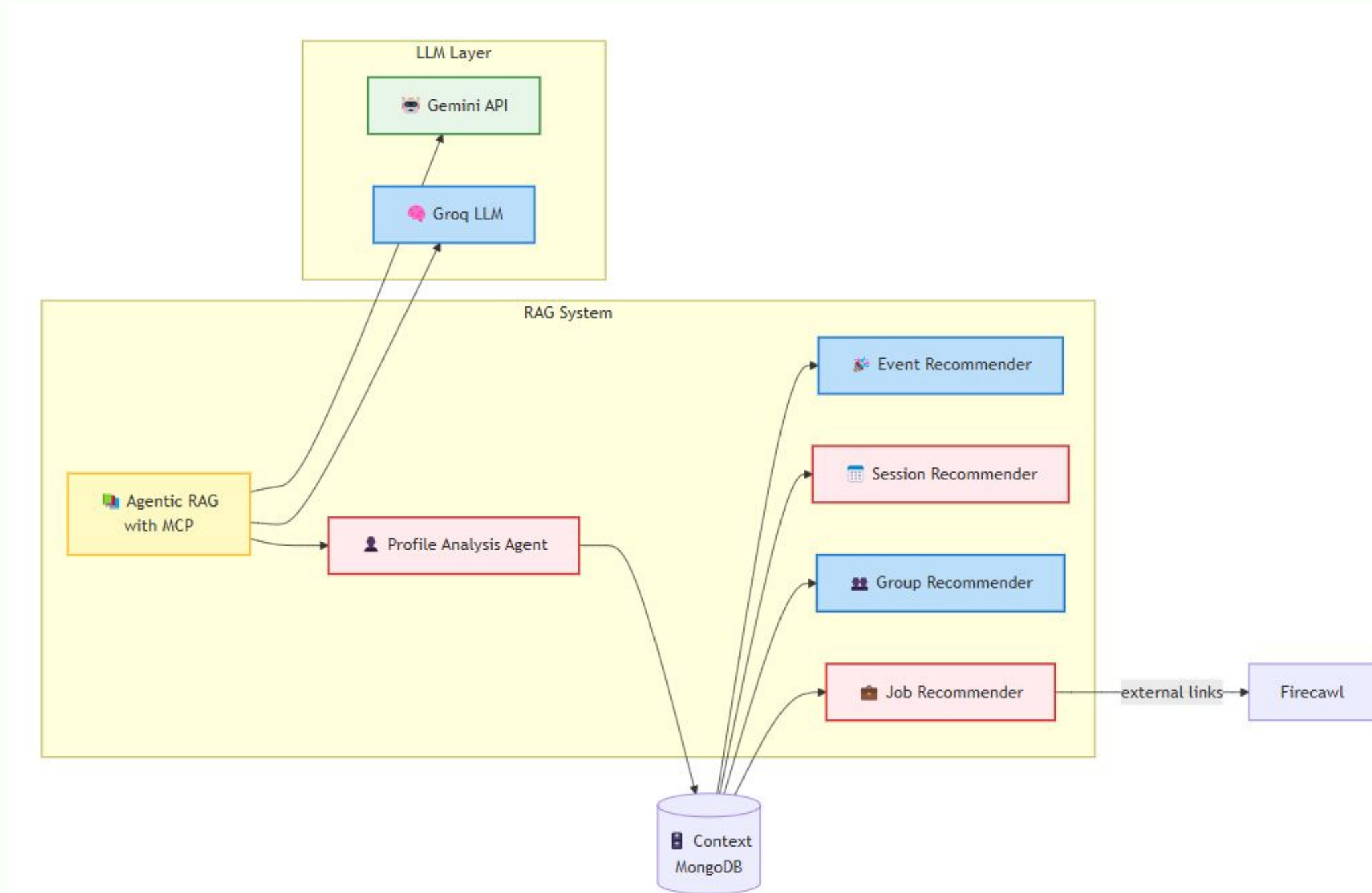
ASHAAI Memory System



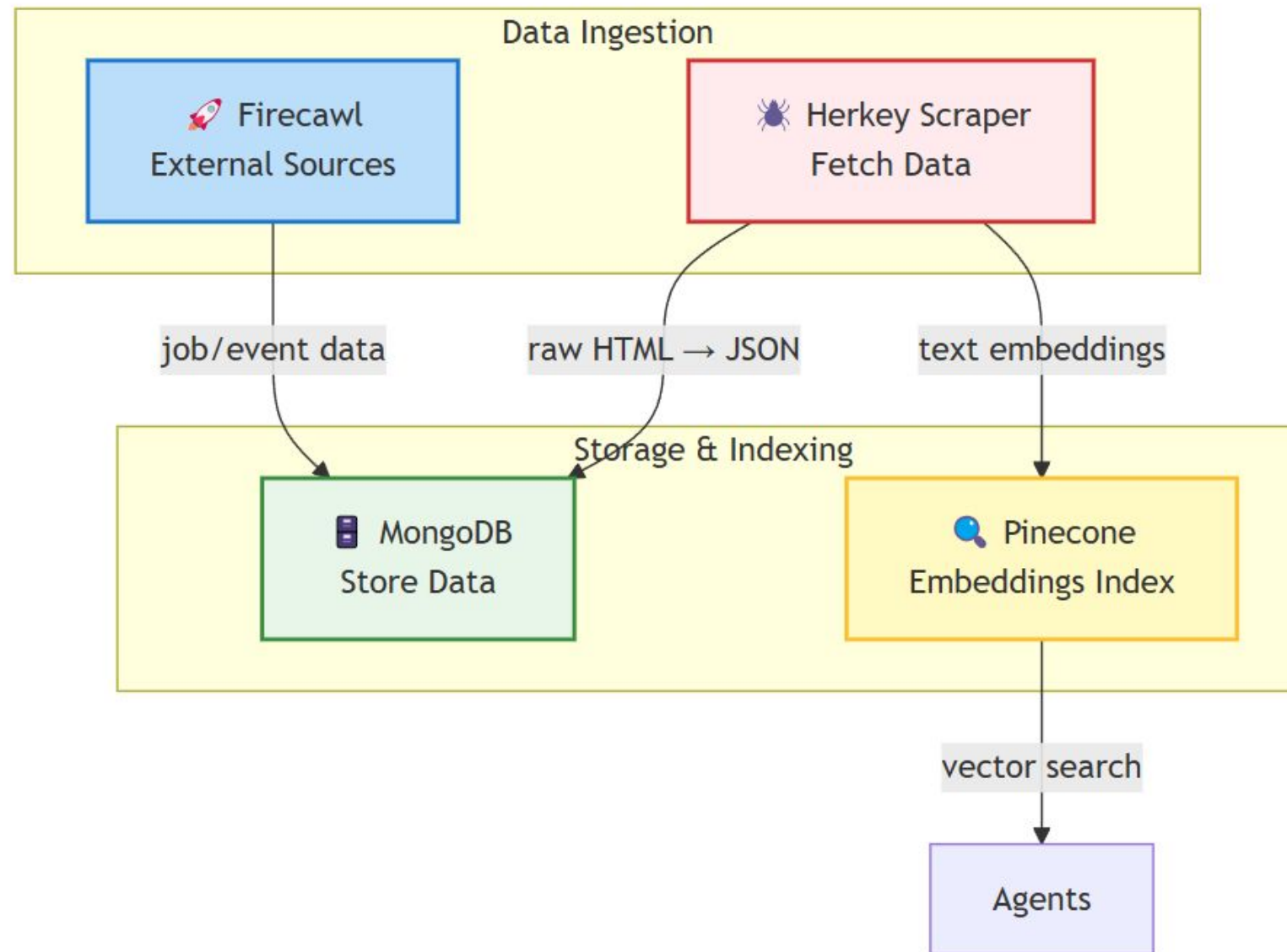
Process flow diagrams



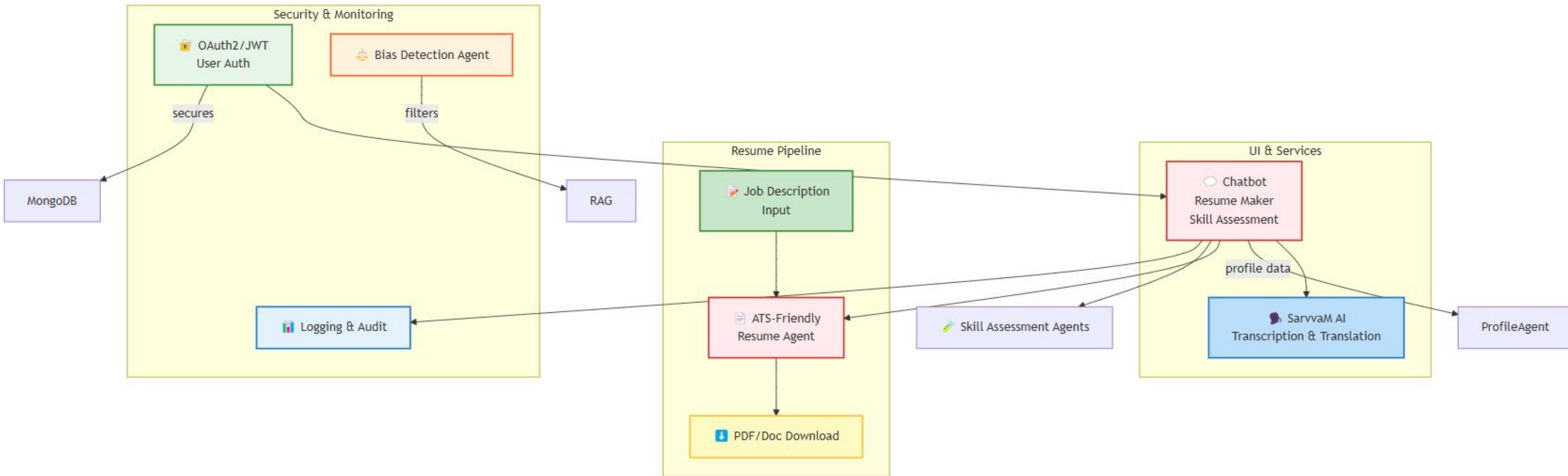
Recommendation system



Job recommendation engine

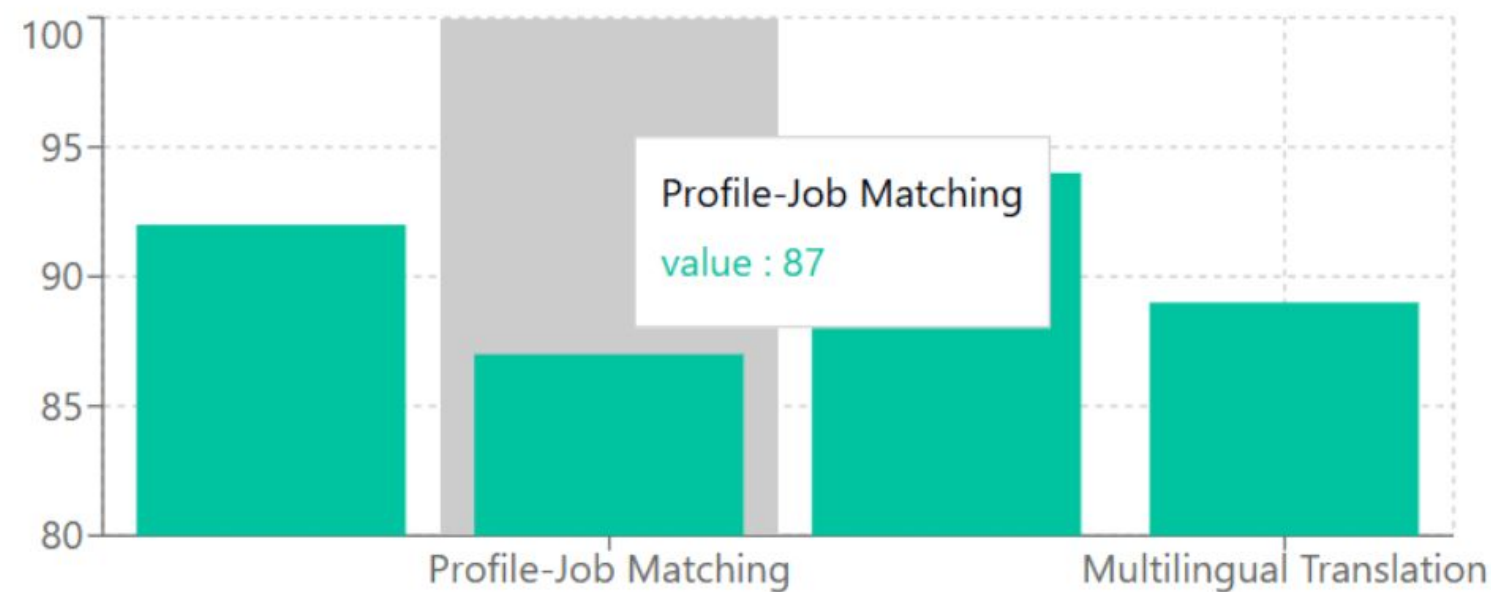


Process flow diagram

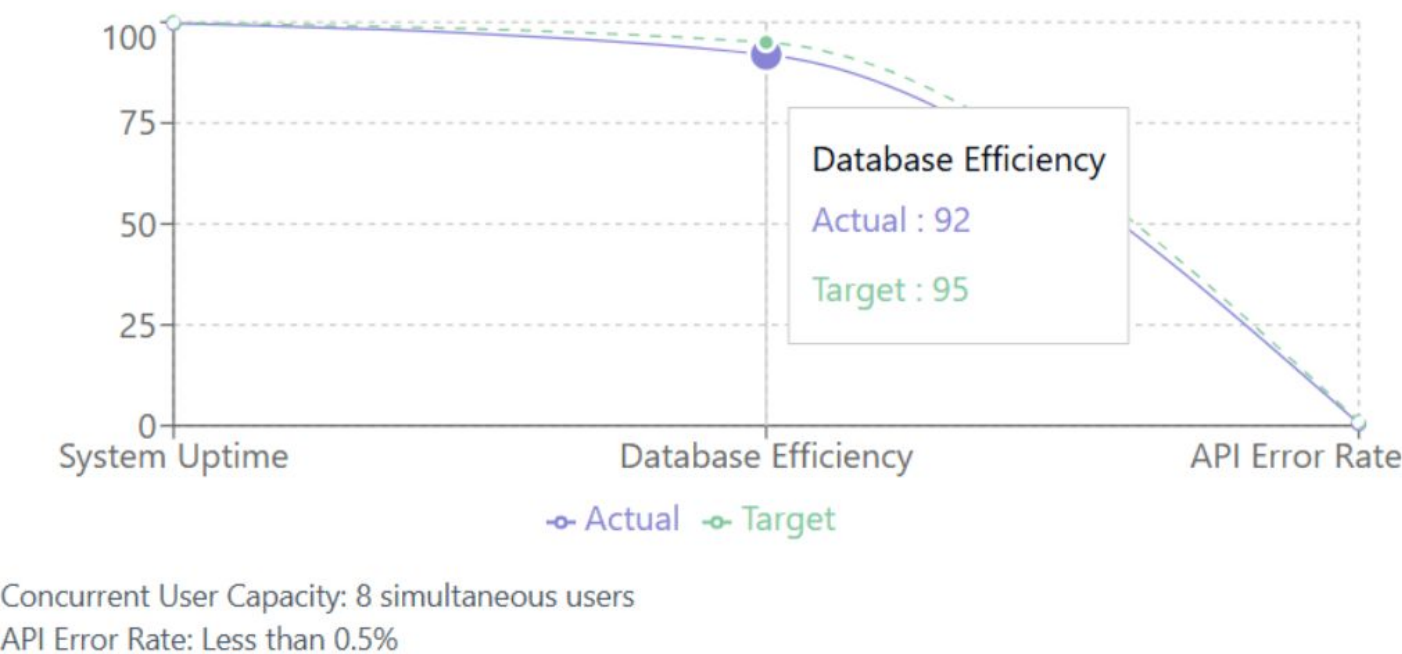


Performance

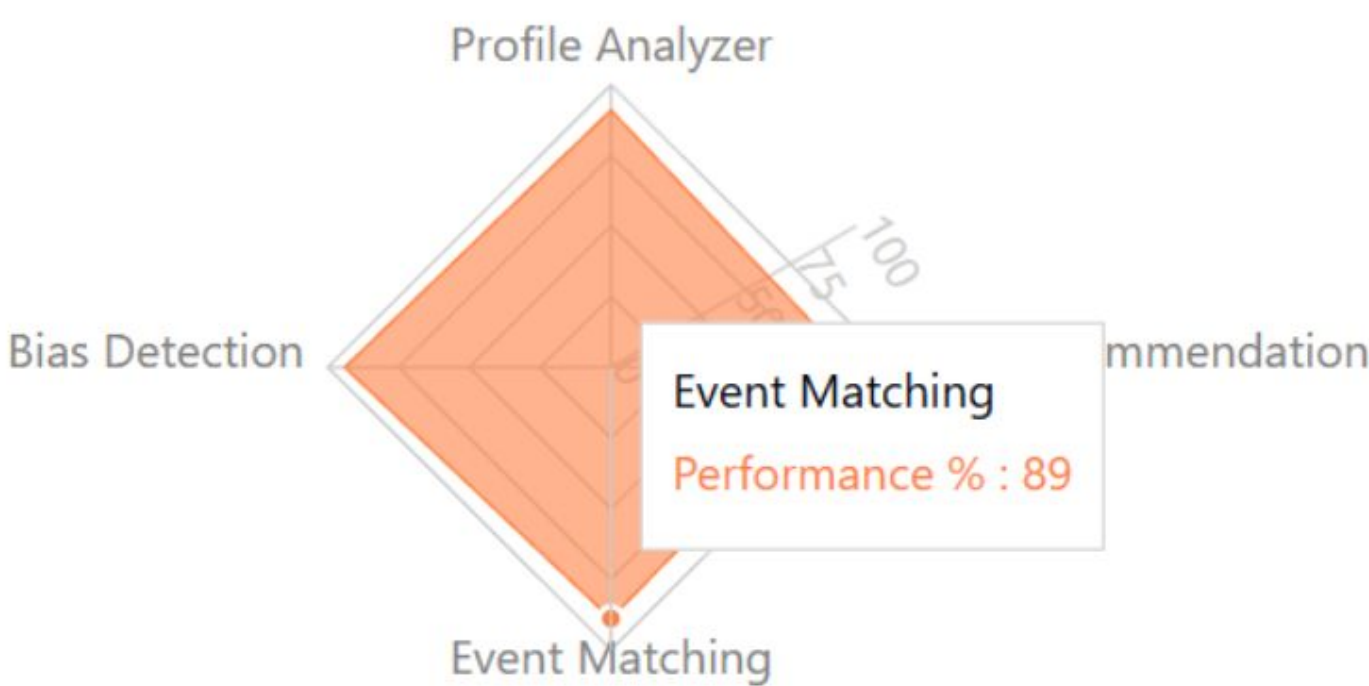
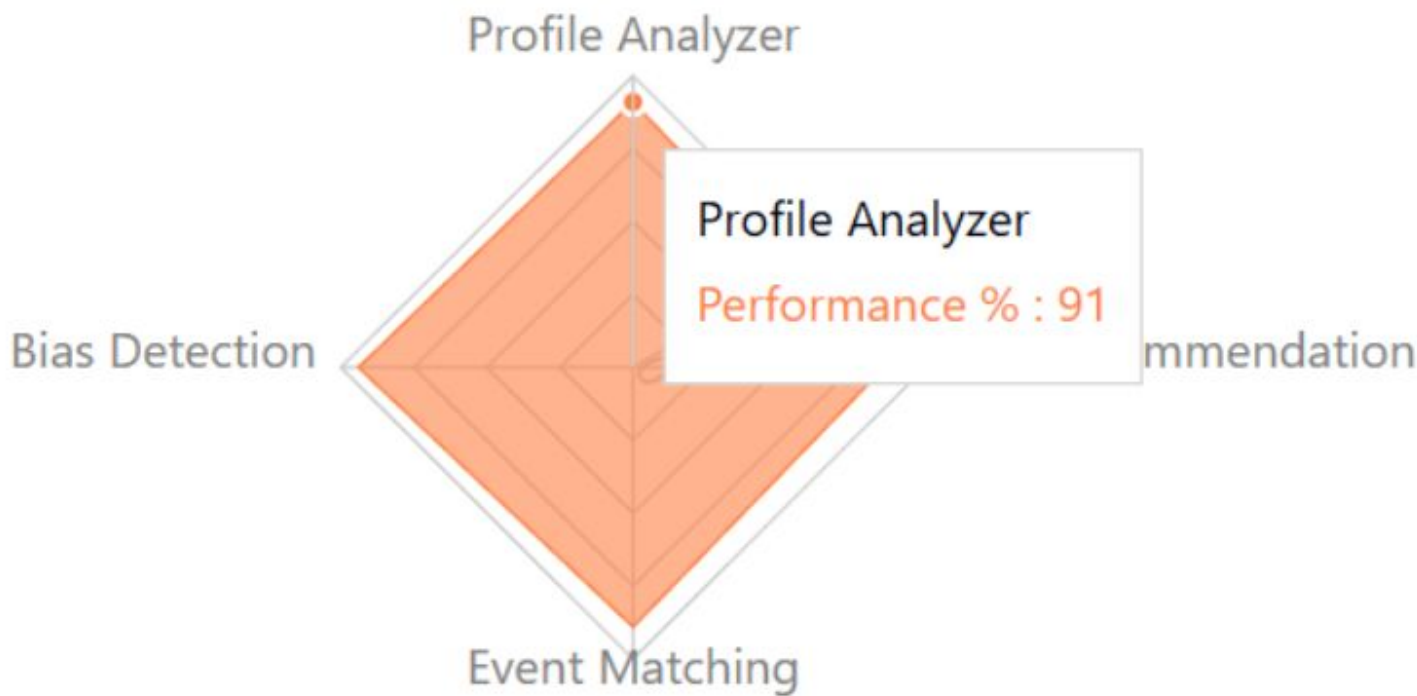
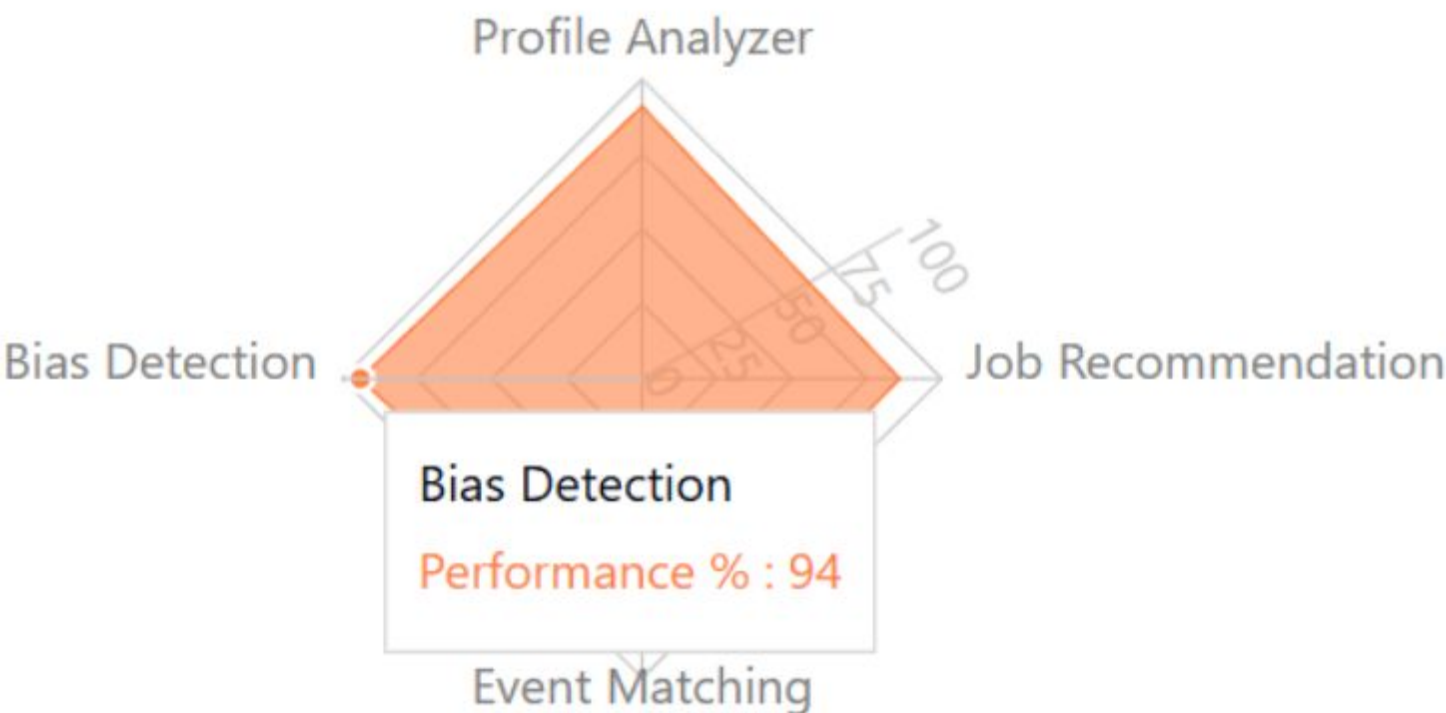
Accuracy Metrics (%)



System Performance



Agents performance



API Subscription Costs Breakdown

Gemini 2.5 Flash API

Input: \$0.15/1M tokens (text/image/video), \$1.00/1M (audio)

Output: \$0.60/1M tokens (non-thinking), \$3.50/1M (thinking)

Groq API (DeepSeek R1 Distill Llama 70B)

\$0.75/1M input tokens, \$0.99/1M output tokens

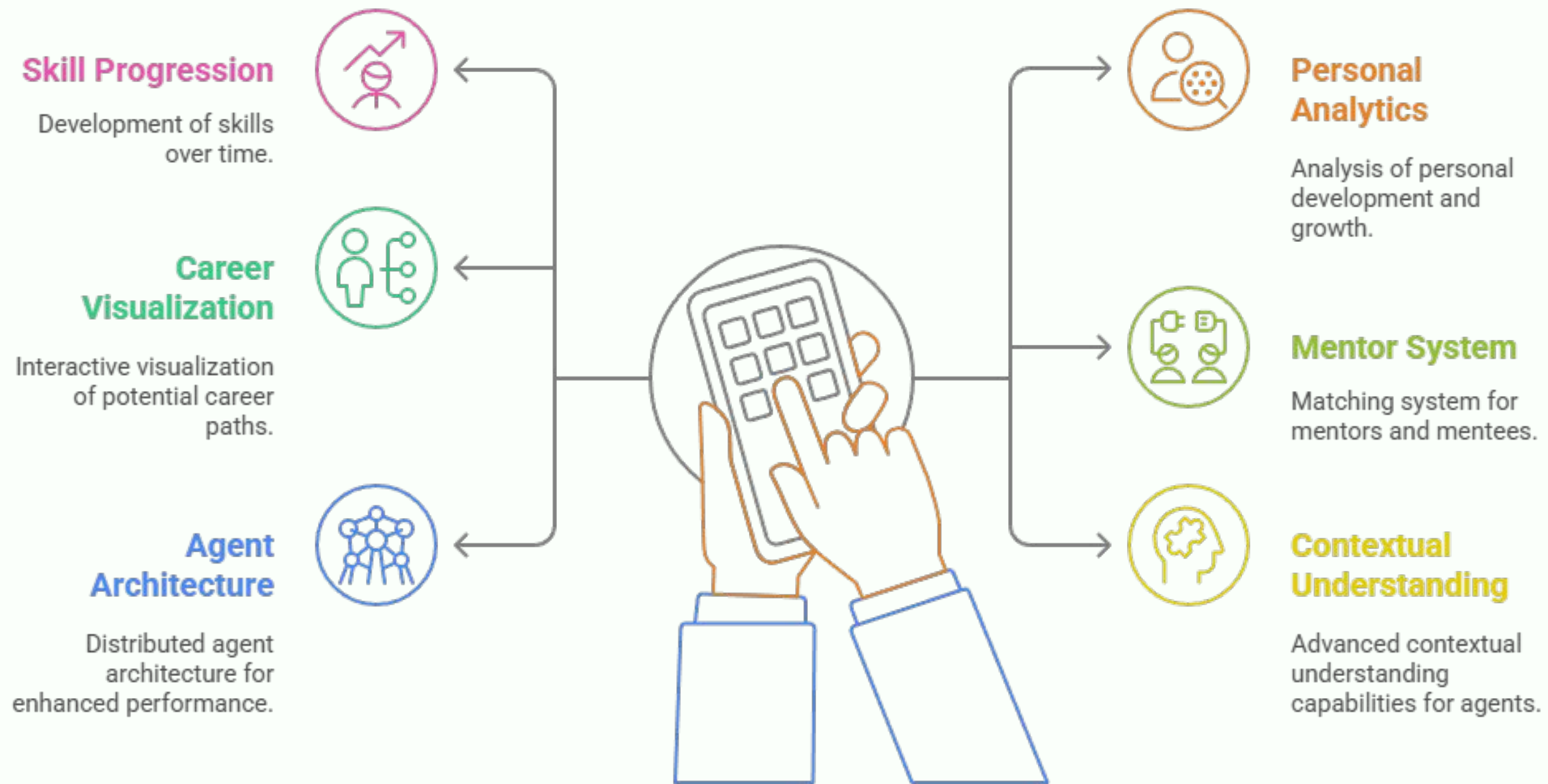
Firecrawl

\$83/year for 100K pages/month, 50 browsers

Sarvam AI API

₹30/hour (~\$0.36/hour), approx. \$3,600 annually

Future Development & Features



Links

Source Code Repository:

<https://github.com/nandini-kuppala/Vega-Agent>

Technical Documentation:

<https://github.com/nandini-kuppala/Vega-Agent/blob/main/README.md>

Demo Video:

<https://drive.google.com/drive/u/0/folders/12meWVGZetAzIr-KFBZI9Q5QyDOzT33Dm>

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THANK YOU!

