

Understanding the Career Challenge

Job seekers often struggle to identify the skills needed for specific roles and how to develop them effectively. Overwhelming job requirements and unclear learning paths create confusion and hinder progress.

There is a strong market need for personalized guidance that helps individuals prioritize skill development and navigate career transitions with confidence.

Challenges

- Overwhelming job requirements
- Unclear learning paths
- Difficulty prioritizing skills

Market Need

Personalized career guidance for skill development and transitions

Introducing the Career Roadmap Generator

This AI-powered tool analyzes job descriptions to create personalized learning roadmaps. It extracts key skills, generates clear development paths, and offers CV analysis to identify gaps.

Core functionalities include skill extraction, roadmap generation, and CV evaluation, all designed to simplify career planning and boost user confidence.



AI-Powered Analysis

Automated extraction of job requirements



Personalized Roadmaps

Customized learning paths tailored to individual goals



CV Analysis

Identifies skill gaps and improvement areas

Key Features: Job Description Analysis & Skill Categorization

Job Description Analysis

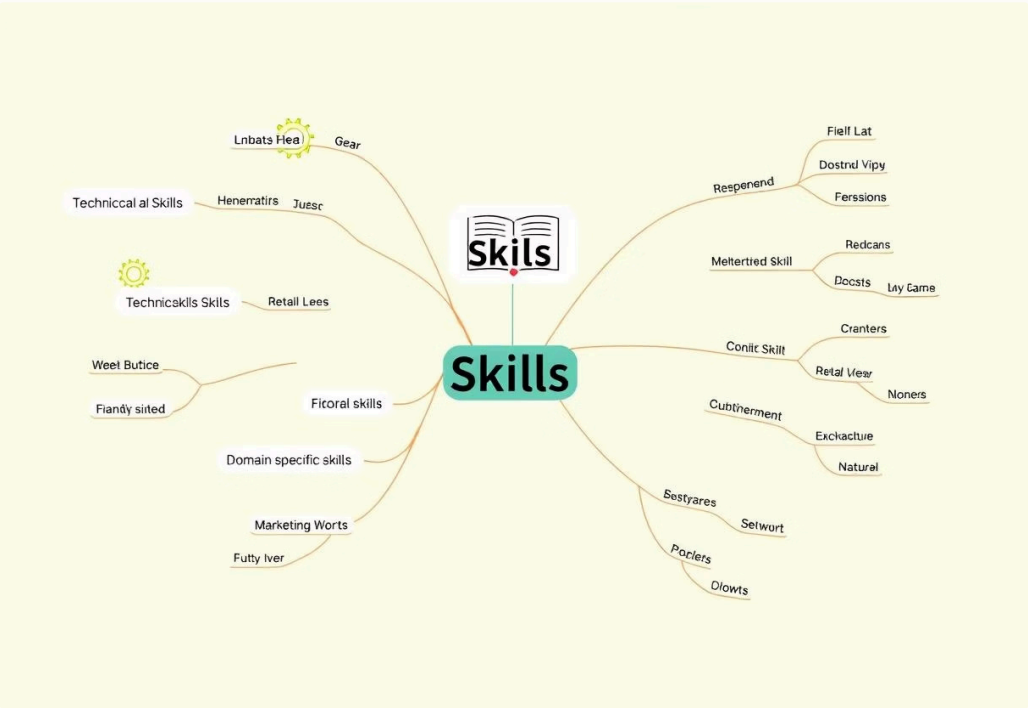
AI extracts key requirements from job postings, providing a comprehensive understanding of market demands.

This feature helps users grasp exactly what employers seek, making skill development more targeted and effective.

Skill Categorization

Skills are organized into technical, soft, and domain-specific categories for a structured learning approach.

This organization simplifies prioritization and helps users focus on relevant skill sets for their career goals.



Personalized Learning Roadmap & CV Analysis

Personalized Learning Roadmap

Roadmaps feature phases and progression logic, guiding users through skill acquisition step-by-step.

Includes curated resources and project recommendations to enhance practical learning and career readiness.

CV Analysis

Evaluates user CVs to match skills against job requirements and identify gaps.

Provides personalized recommendations to improve CV content and boost job application success.



Technology, Architecture & Interactive Q&A

1

Tech stack used

Streamlit, claude, copilot and gemini

2

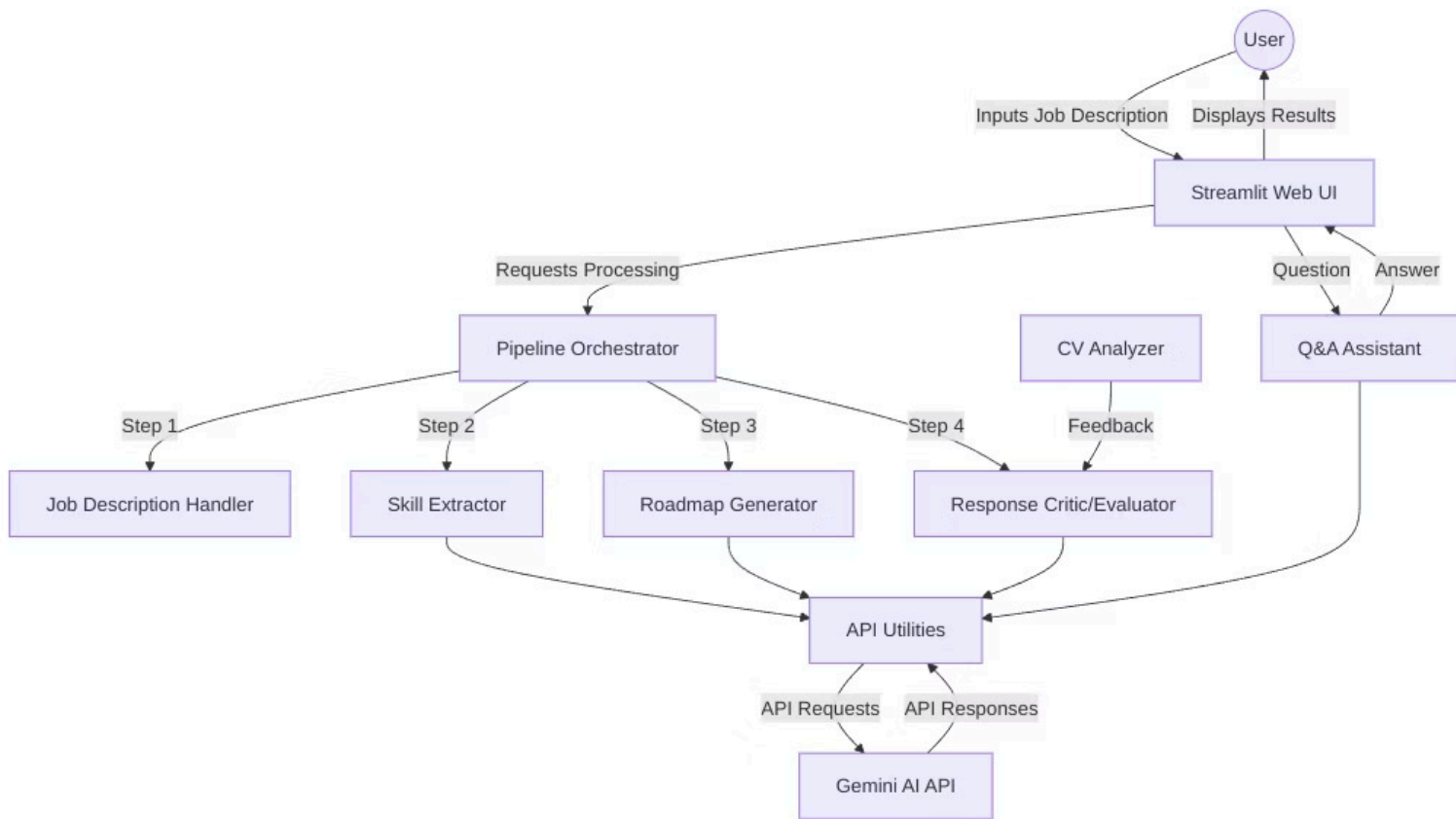
Interactive Q&A

Chat interface offers targeted guidance based on user questions for personalized support.

System Architecture



System Architecture



Use Cases & Benefits

Use Cases

- Recent graduate seeking first job
- Professional transitioning to a new field
- Skill upgrader in current role

Benefits & Impact

- Time saved in research and planning
- Increased confidence in skill development
- Better alignment with job market demands
- Measurable career progression

Future Roadmap & Call to Action



Vision for Growth

Leverage techniques to retrieve better resources better using the web

Integrate a mock interview micro-service