

# AI-POWERED CHATBOT FOR CAREER GUIDANCE (MS-AI-39)

**TEAM NAME: LUMINA**

**TEAM MEMBERS:**

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# PROBLEM STATEMENT

Choosing the right career path can be overwhelming. Many individuals struggle to identify job roles that align with their skills and aspirations. Recruiters also face challenges in matching candidates efficiently. Our solution addresses this gap by automating career recommendations using AI, reducing uncertainty and streamlining the job search process.



# CAREER DISHA: YOUR AI CAREER ADVISOR

## ► EXPLANATION AND AZURE SERVICES USED

We have developed an AI-powered chatbot that:

Analyzes a user's skills and interests from a form or uploaded resume.

Matches them with relevant job opportunities using a database of predefined job roles.

Provides detailed career recommendations, including required skills, salary insights, and growth potential.

Our chatbot utilizes **Azure OpenAI's GPT-4 Turbo** (Model Version: turbo-2024-04-09) for natural language processing and career analysis. The system processes resumes, extracts skills, and generates detailed career insights using Azure AI Services



# CAREER DISHA: YOUR AI CAREER ADVISOR

## ➤ KEY USES OF GPT-4 TURBO IN CAREERDISHA:


- **Personalized Career Suggestions** - Analyzes user inputs (skills, interests, academic background, and goals) to recommend the best career paths.
- **Resume & Profile Analysis** - Evaluates user resumes and profiles to suggest improvements based on industry trends.
- **Job Market Trends & Insights** - Fetches real-time industry trends and skill demands to provide up-to-date recommendations.
- **AI-Powered Recommendations** - Act as an improviser by analyzing skills, identifying gaps, and suggesting improvements for better job readiness.
- **Skill Gap Analysis & Learning Pathways** - Identifies missing skills and suggests courses, books, or training programs to bridge the gap.



# TECHNICAL DEMONSTRATION

- ▶ GITHUB LINK:[https://github.com/MedhaAggarwal/Lumina\\_MicrosoftHackathon](https://github.com/MedhaAggarwal/Lumina_MicrosoftHackathon)
- ▶ DATASET:<https://www.kaggle.com/datasets/breejeshdhar/career-recommendation-dataset>

# SCREENSHOTS

CareerDisha: Your AI Career Advisor

Kalash Jindal

C++, C, Python, Java

No

98

Software Engineering

B.Tech

Computer Science and Engineering

No

Upload Your Resume (Optional)

Choose File

No file chosen

PDF format only (Max 5MB)

✓ Resume uploaded successfully

Get Career Recommendations

Hello Enthusiast🚀! Based on your skills, interests, and expertise, these career paths align perfectly with your potential!

Job Title	Company	Location	Match Score	Rating	Salary
Software Engineer I	Tech Innovations Inc.	San Francisco	3/10	4.0	\$90,000
Data Engineer	DataSolutions Corp.	New York	3/10	4.0	\$85,000
Data Scientist	Tech Innovations	San Francisco	2/10	4.5	\$120,000
Software					

Detected Skills:

java

c++

python

c

data analysis

Personalized Career Advice

Based on your profile, we've prepared a detailed career analysis.

View Full Career Analysis Report

## Detailed Career Analysis for Kalash Jindal

**Skills:** C++, C, Python, Java  
**Degree:** B.Tech  
**Interests:** Software Engineering

### Career Path Recommendations

Based on your profile, here are the most suitable career paths:

#### 1. Software Developer

Your strong programming skills in C, C++, and Python make you an excellent candidate for software development roles.

#### 2. Embedded Systems Engineer

Your combination of low-level programming skills and engineering background is ideal for embedded systems.

#### 3. Data Engineer

With your Python skills and analytical mindset, you could excel in data engineering roles.

#### Job Market Trends for Recommended Roles

- Software Developer:** Steady growth with an increasing demand for developers skilled in multiple programming languages.
- Embedded Systems Engineer:** Growing demand in industries like automotive, telecommunications, and healthcare.
- Data Engineer:** High demand due to the surge in data generation and the need for sophisticated data solutions.

### Next Steps

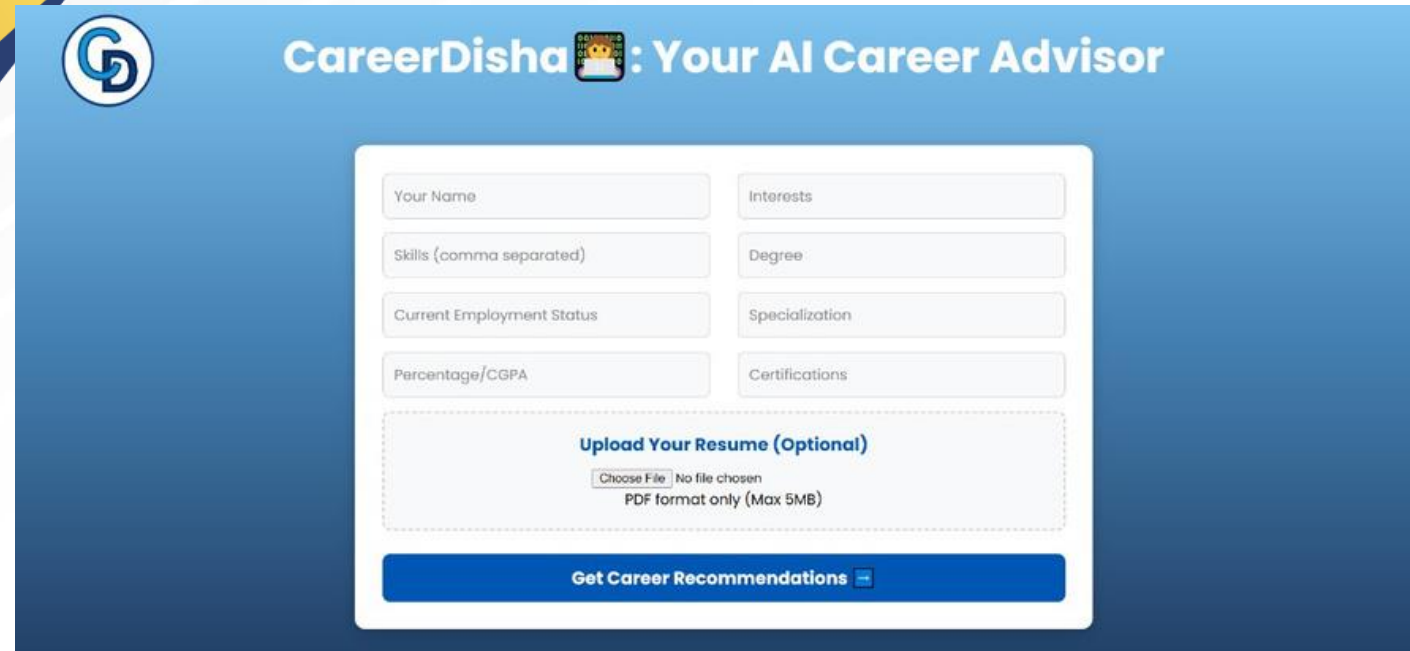
To pursue these career paths, consider the following actions:


- Build portfolio projects showcasing your programming skills
- Obtain relevant certifications in your chosen specialization
- Network with professionals in your target industries
- Stay updated with the latest technologies and trends

[← Back to Career Navigator](#)



# SCREENSHOTS



**CareerDisha** : Your AI Career Advisor

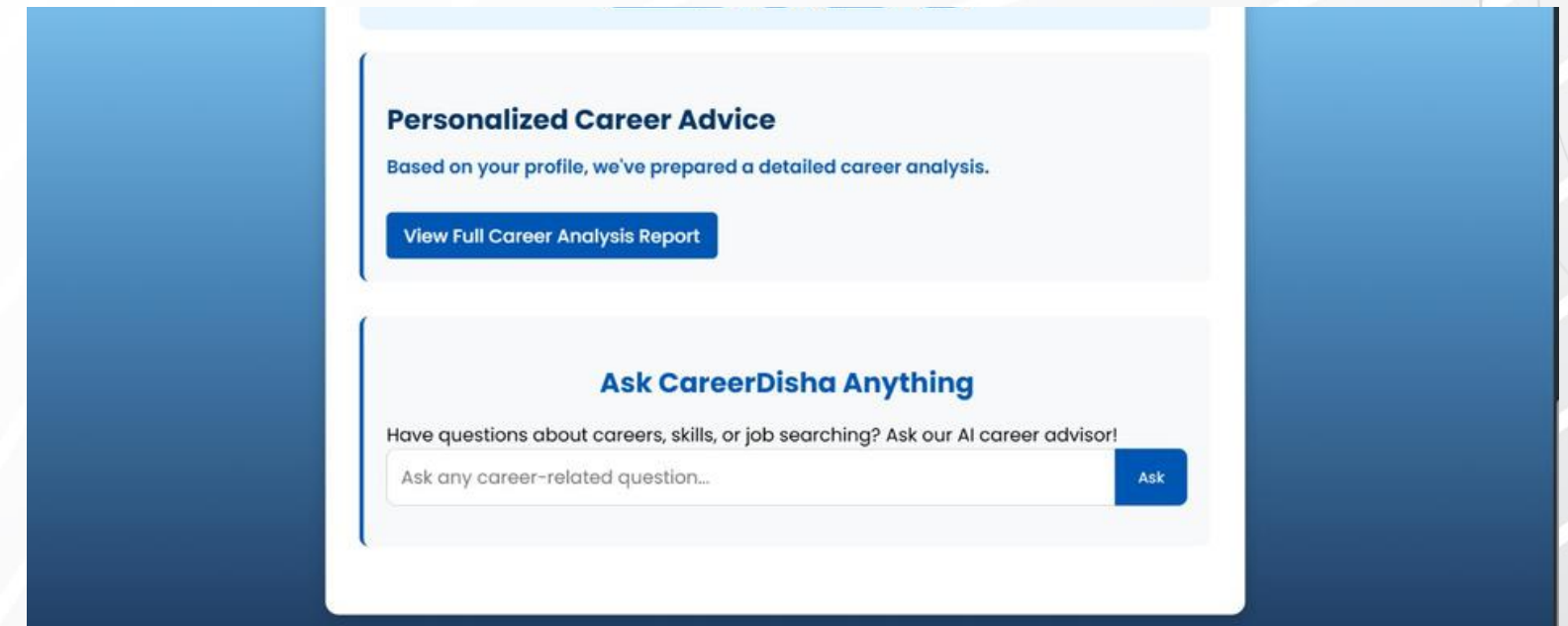
Form fields:

- Your Name
- Interests
- Skills (comma separated)
- Degree
- Current Employment Status
- Specialization
- Percentage/CGPA
- Certifications

**Upload Your Resume (Optional)**

Choose File | No file chosen  
PDF format only (Max 5MB)

**Get Career Recommendations**



**Personalized Career Advice**

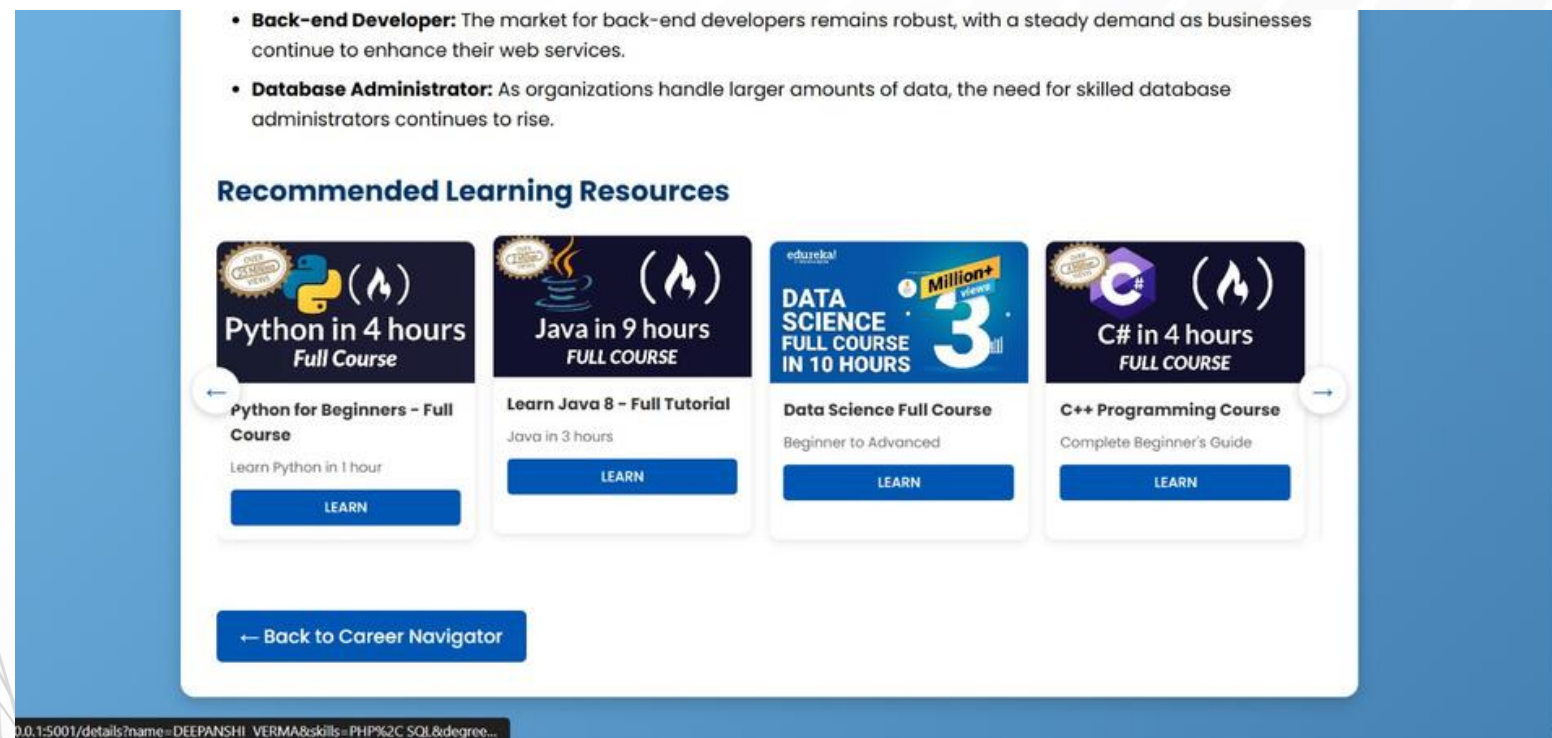
Based on your profile, we've prepared a detailed career analysis.

**View Full Career Analysis Report**

**Ask CareerDisha Anything**

Have questions about careers, skills, or job searching? Ask our AI career advisor!

Ask any career-related question... **Ask**



**Recommended Learning Resources**

- Back-end Developer:** The market for back-end developers remains robust, with a steady demand as businesses continue to enhance their web services.
- Database Administrator:** As organizations handle larger amounts of data, the need for skilled database administrators continues to rise.

**Python in 4 hours Full Course**

Python for Beginners - Full Course  
Learn Python in 1 hour  
**LEARN**

**Java in 9 hours FULL COURSE**

Learn Java 8 - Full Tutorial  
Java in 3 hours  
**LEARN**

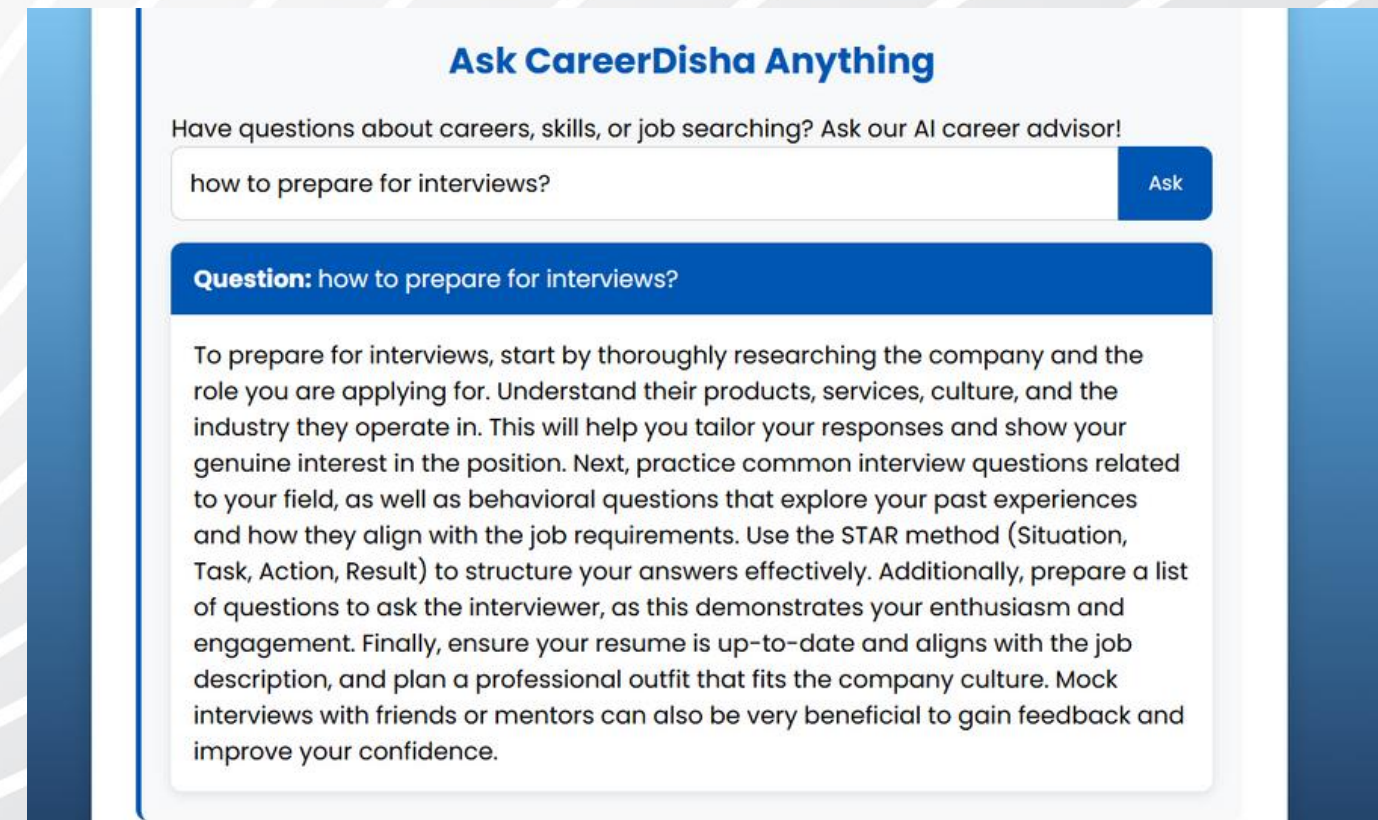
**DATA SCIENCE FULL COURSE IN 10 HOURS**

Data Science Full Course  
Beginner to Advanced  
**LEARN**

**C# in 4 hours FULL COURSE**

C++ Programming Course  
Complete Beginner's Guide  
**LEARN**

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**Ask CareerDisha Anything**

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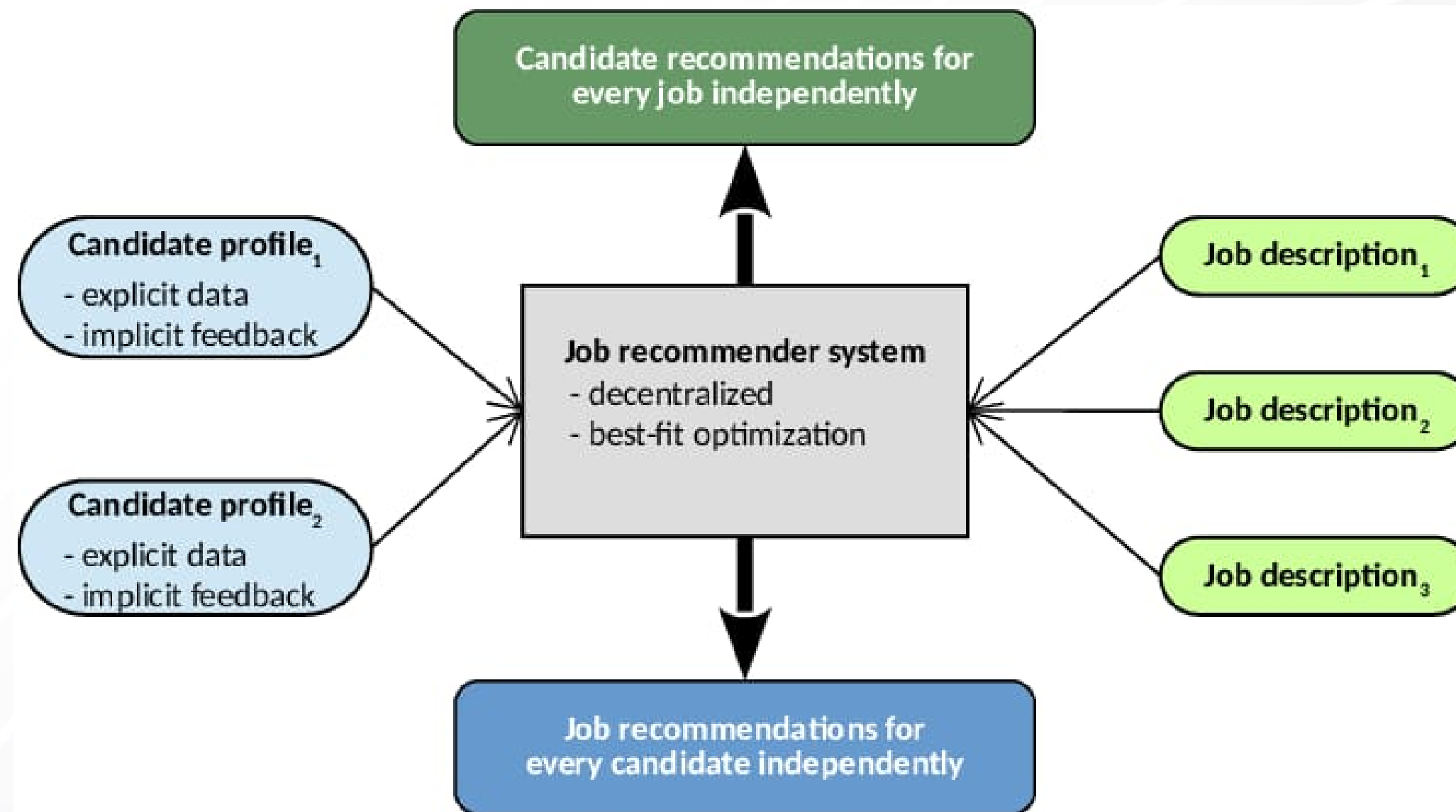
how to prepare for interviews? **Ask**

**Question:** how to prepare for interviews?

To prepare for interviews, start by thoroughly researching the company and the role you are applying for. Understand their products, services, culture, and the industry they operate in. This will help you tailor your responses and show your genuine interest in the position. Next, practice common interview questions related to your field, as well as behavioral questions that explore your past experiences and how they align with the job requirements. Use the STAR method (Situation, Task, Action, Result) to structure your answers effectively. Additionally, prepare a list of questions to ask the interviewer, as this demonstrates your enthusiasm and engagement. Finally, ensure your resume is up-to-date and aligns with the job description, and plan a professional outfit that fits the company culture. Mock interviews with friends or mentors can also be very beneficial to gain feedback and improve your confidence.



# FLOW CHART





# IMPACT

- Job suggestions based on skills and industry trends
- Full personal career advice tailored to user goals
- Resume extraction for skills and other useful content
- AI-powered recommendations to improve job preparation
- Skill gap analysis with targeted learning resources
- Interactive query resolver for instant career and job-related assistance



# FUTURE SCOPE

- AI-powered mentorship recommendations
- Job trend analysis using LinkedIn & other platforms
- Route optimization using Google Maps API
- Resume scoring system (out of 100)
- AI-powered resume enhancement
- Skill gap analysis & course recommendations
- Automated cover letter generation
- AI-driven interview preparation
- Personalized career roadmap



# CONCLUSION

Our AI-powered career recommendation chatbot revolutionizes the job search process by providing personalized, data-driven insights. By leveraging Azure OpenAI's GPT-4 Turbo, the system efficiently analyzes user profiles, matches them with **suitable job roles**, and offers valuable **career guidance** along with **personalized career advice** in text format.



The background features a light gray field with a series of thin, white, wavy lines that create a sense of movement. In the corners, there are decorative elements: the top-left and bottom-right corners have thick, flowing bands of dark blue and gold, while the top-right and bottom-left corners feature a pattern of thin, intersecting gray lines.

THANK YOU