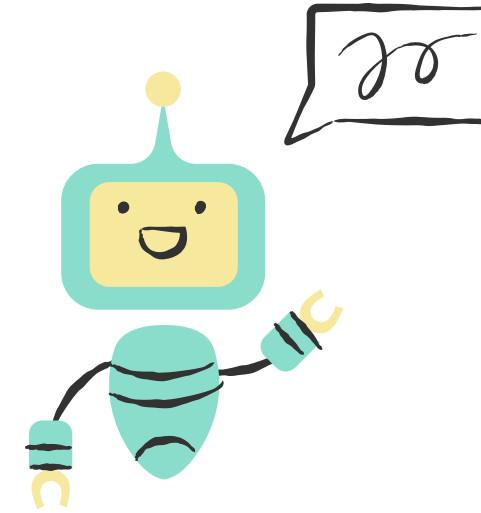


GE19621-Professional Readiness for Innovation,  
Employability and Entrepreneurship



# CAREER CONNECT

*YOUR JOB-HUNTING CHATBOT ANYTIME, ANYWHERE !*



**Presented by**

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**Sivashankar S (210701252)**

# AGENDA

**01 - ABSTRACT**

**02 - OBJECTIVES OF THE  
SYSTEM**

**03 - PROBLEM STATEMENT**

**04 - EXISTING SYSTEM**

**05 - PROPOSED SYSTEM**

**06 - SYSTEM ARCHITECTURE**

**07 - SYSTEM REQUIREMENTS**

**08 - MODULES USED**

**09 - OUTPUTS**

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REFERENCES**



# ABSTRACT

CareerConnect tool tackles the challenge of matching young professionals with ideal careers. It analyzes skills, interests, and job market trends using open-source data and machine learning. By recommending jobs, identifying skill gaps, and suggesting learning paths, this app empowers young adults to navigate the dynamic job market and find career success.



# OBJECTIVE OF THE SYSTEM



## Personalized Career Guidance:

The system aims to provide personalized career recommendations for young professionals using AI and open-source data.

## Bridge Skills Gap:

By analyzing user skills and job market trends, the system identifies skill gaps and suggests learning paths to bridge them.

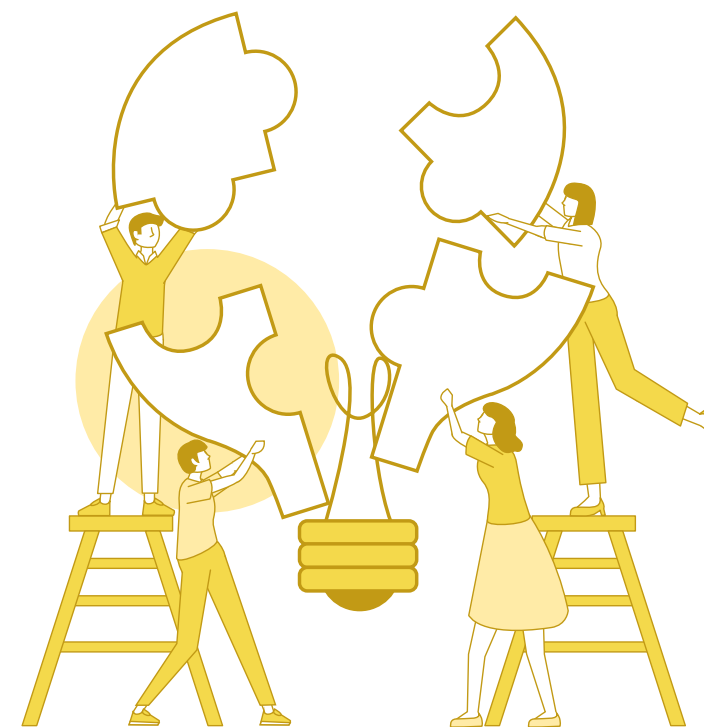
## Efficient Job Search

The system streamlines the job search process by recommending relevant job opportunities based on user profiles.

## Empower Young Professionals:

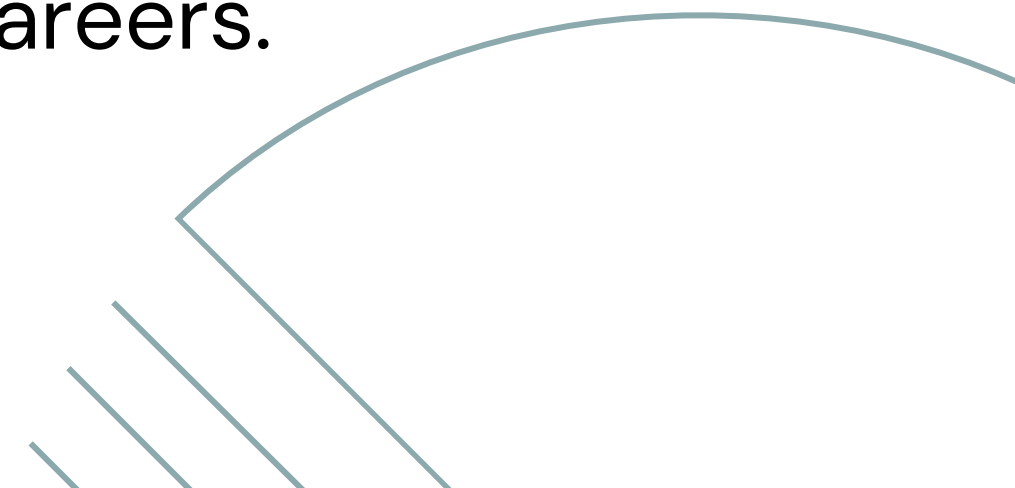
Through personalized guidance, skill gap analysis, and job recommendations, the system empowers young adults to make informed career decisions and navigate the job market confidently.

# PROBLEM STATEMENT



# PROBLEM STATEMENT

Today's young professionals face a complex job market where finding the right career path can be challenging. Traditional guidance often lacks personalization, while the sheer volume of job opportunities can be overwhelming. Additionally, young adults may not be aware of skill gaps that hinder their prospects. This project proposes an AI-powered mobile application to address these issues. By analyzing user profiles and leveraging open-source data, the app provides personalized career recommendations, identifies skill gaps, and suggests learning paths, empowering young professionals to navigate the job market with confidence and find fulfilling careers.





# EXISTING SYSTEM



# EXISTING SYSTEM

## Limited Personalization:

Traditional tools offer generic advice based on GPA or aptitude tests. They lack the ability to identify specific job titles or career paths aligned with individual strengths and interests.

Information Overload: Job boards overwhelm users with a vast amount of information and poorly categorized listings. Keyword searches often miss relevant opportunities, and essential skills/experience filters might not be available.

Limited Accessibility and Cost: Counseling services are often expensive and not readily available in all locations. This limits access to personalized career guidance, especially for cost-conscious young adults just starting their careers.





# PROPOSED SYSTEM

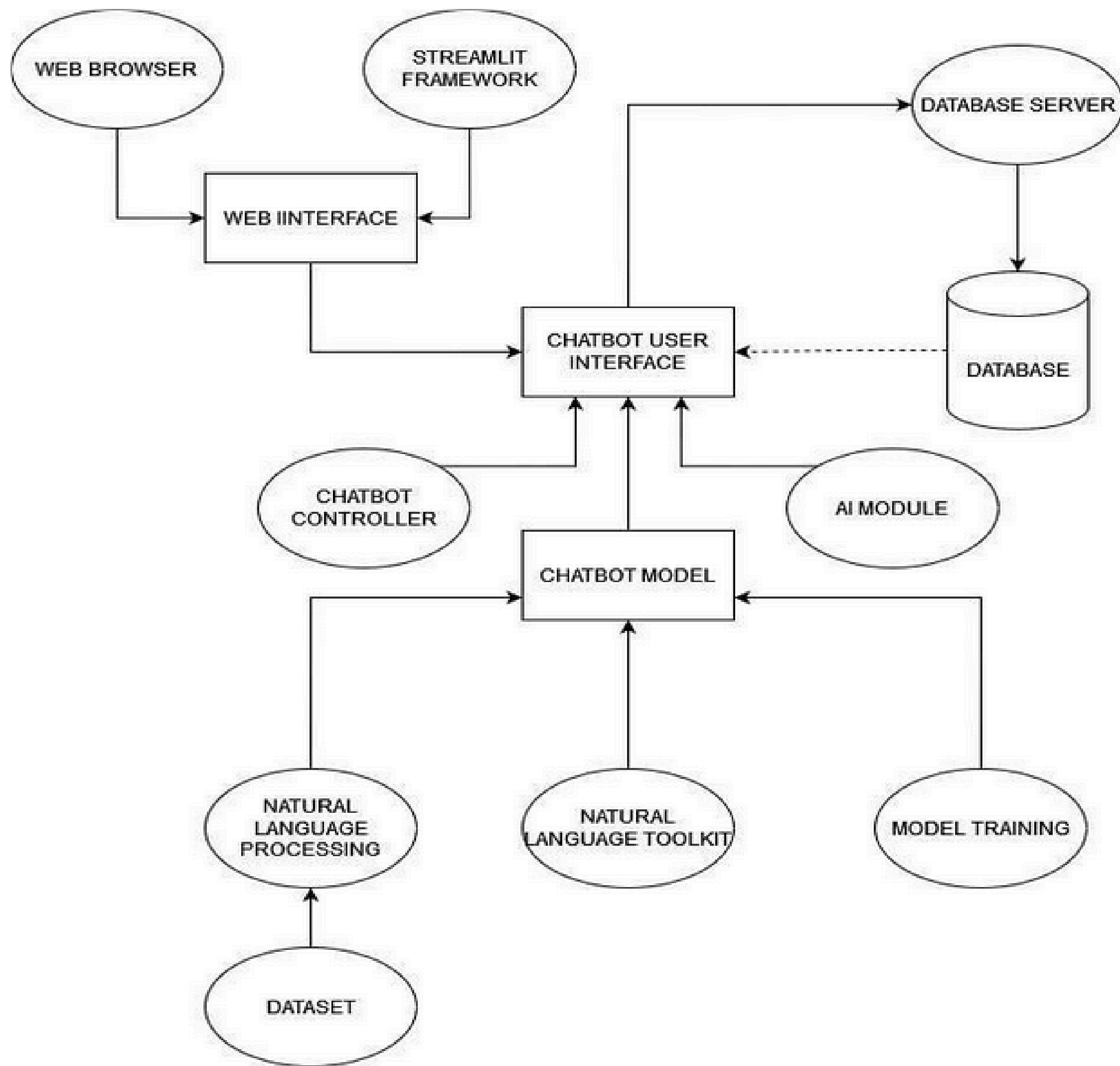
# PROPOSED SYSTEM

- AI-Driven App: A stand-alone application using AI to recommend career paths.
- Job Search Algorithms: Recommendations are based on keywords and user interaction history.
- User Profile Analysis: Utilizes user data (education, experience, interests) to tailor recommendations.
- Youth Empowerment: Encourages informed career choices and skill development for young job seekers.
- Career Counseling: Provides personalized guidance to help users align their goals with market demands.



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# SYSTEM ARCHITECTURE





# SOFTWARE & HARDWARE REQUIREMENTS



# SOFTWARE REQUIREMENTS

The software requirements document is the specifications of the system. It should include both a definition and a specification of requirements. It is a set of what the system should rather be doing than focus on how it should be done. The software requirements provide a basis for creating the software requirements specification. It is useful in estimating the cost, planning team activities, performing tasks, tracking the team, and tracking the team's progress throughout the development activity.

Python IDLE, and chrome would all be required

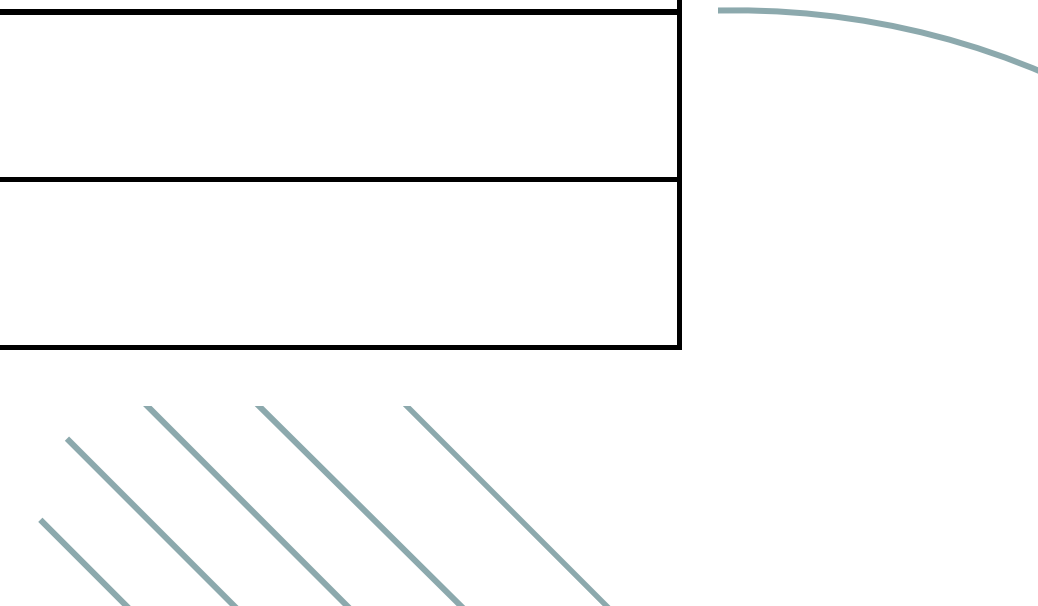





# HARDWARE REQUIREMENTS



COMPONENTS	SPECIFICATION
PROCESSOR	Intel Core i5
RAM	8 GB RAM
GPU	NVIDIA GeForce GTX 1650
MONITOR	15" COLOR
HARD DISK	512 GB
PROCESSOR SPEED	MINIMUM 1.1 GHz







# MODULES USED



# CAREER CONNECT

**01 - AGENT MODULE**

**02 - TASK MODULE**

**03 - RESUME  
ANALYSIS MODULE**


**04 - DATASET  
ANALYSIS MODULE**

**05 - CHATBOT MODULE**

**06 - WEB INTERFACE  
MODULE**

**07 - LLM MODULE**



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# MODULE DESCRIPTION

## 01 - AGENT MODULE

This is the heart of the system housing the AI algorithms for analyzing user data and job market information. perform tasks like:

- Analyzing user profiles
- Extracting key information from job descriptions
- Matching user skills and interests with suitable careers
- Generating personalized recommendations

This module manages user interactions and functionalities within the app. It allows users to:

- Create and update their profiles
- Access career recommendations

## 02 - TASK MODULE



### 03 - RESUME ANALYSIS MODULE

This module (optional) analyzes user-uploaded resumes to extract relevant skills and experience for profile creation and potentially enhance recommendations.

Agent Module analyzes user profiles using Machine Learning (ML).

This module manages the processing and analysis of open-source job data used by the AI engine for generating recommendations. It ensures the data is up-to-date and relevant.

### 04 - DATASET ANALYSIS MODULE

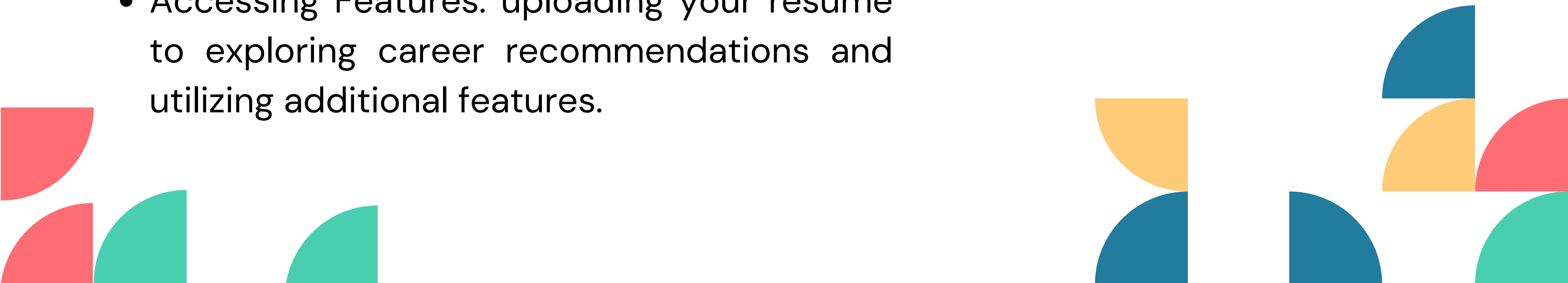


## 05 - CHAT BOT MODULE

- Conversational Career Exploration: Ask questions about careers, skills, or education paths using natural language.
- Personalized Support: The chatbot tailors guidance based on your user profile, suggesting relevant options and resources.

- Communication: Chatbot integration, messaging system.
- Accessing Features: uploading your resume to exploring career recommendations and utilizing additional features.

## 06 - WEB INTERFACE MODULE



## 07 - LLM MODULE

Enhanced Recommendation Depth: LLMs could analyze vast amounts of career-related text data, including job descriptions, industry trends, and expert insights. This could lead to more nuanced and insightful career recommendations for users.

Beyond Keywords: Traditional recommendation systems often rely on keyword matching, leading to generic suggestions. LLMs can delve deeper, analyzing the nuances of career-related text data.



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OUTPUTS



# LANDING PAGE

## Job Recommender

Job Recommender is a tool that helps you find the right job based on your preferences and skills. Upload your resume now to get started!

Hello! I'm excited to help you find your next job opportunity. To get started, I'd like to understand your job preferences and qualifications.

Could you please share your resume with me? This will help me better understand your skills and experience.

What type of a job are you looking for? Are you looking for a specific industry, company, or location? Do you have any specific skills or qualifications that you'd like to highlight?

Upload your resume (PDF, DOCX)

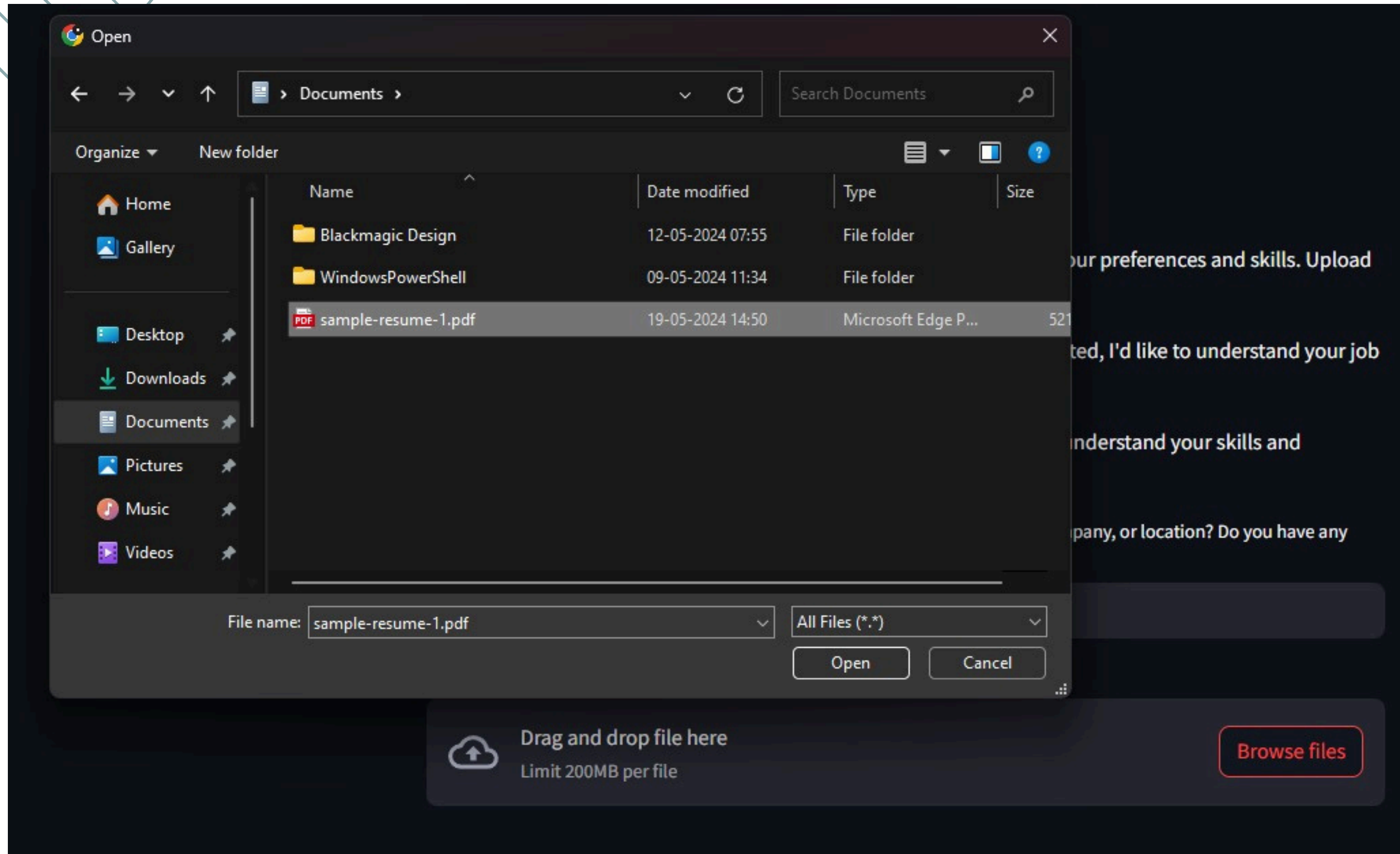


Drag and drop file here

Limit 200MB per file

Browse files

# UPLOADING RESUME



# SUCCESS PAGE

## Job Recommender

Job Recommender is a tool that helps you find the right job based on your preferences and skills. Upload your resume now to get started!

Hello! I'm excited to help you find your next job opportunity. To get started, I'd like to understand your job preferences and qualifications.

Could you please share your resume with me? This will help me better understand your skills and experience.

What type of a job are you looking for? Are you looking for a specific industry, company, or location? Do you have any specific skills or qualifications that you'd like to highlight?

I'm interested in Computer Science

Press Enter to apply

Upload your resume (PDF, DOCX)



Drag and drop file here

Limit 200MB per file

Browse files



sample-resume-1.pdf 0.5MB



Resume uploaded successfully.

# MODULE SELECTION

## Customization

Choose a model

llama3-8b-8192



llama3-8b-8192

mixtral-8x7b-32768

gemma-7b-it



# RESPONSE FROM CAREER CONNECT



## Job Recommendations:

Based on your resume and preferences, here are some job opportunities that might interest you:

Hello! I'm excited to help you find your next job opportunity. Based on the job preferences and qualifications you provided, I've curated a list of job openings that match your skills and interests. Here are the top job opportunities that align with your qualifications and preferences:

1. **Software Engineer, Tech Corp (Job ID: 1)**
  - Job Title: Software Engineer
  - Company: Tech Corp
  - Location: New York
  - Job Description: Develop, test, and maintain software applications
  - Required Skills: Python, Java, SQL, Git
  - Salary Range: 80,000—120,000
2. **Data Scientist, Data Inc (Job ID: 2)**
  - Job Title: Data Scientist
  - Company: Data Inc
  - Location: San Francisco
  - Job Description: Analyze and interpret complex data to help companies make informed decisions
  - Required Skills: Python, R, SQL, Machine Learning, Statistics
  - Salary Range: 100,000—150,000
3. **Web Developer, Web Solutions (Job ID: 3)**
  - Job Title: Web Developer
  - Company: Web Solutions
  - Location: Los Angeles
  - Job Description: Build and maintain websites and web applications
  - Required Skills: HTML, CSS, JavaScript, React, Node.js
  - Salary Range: 70,000—110,000

# RESPONSE FROM CAREER CONNECT



## 3. Web Developer, Web Solutions (Job ID: 3)

- Job Title: Web Developer
- Company: Web Solutions
- Location: Los Angeles
- Job Description: Build and maintain websites and web applications
- Required Skills: HTML, CSS, JavaScript, React, Node.js
- Salary Range: 70, 000—110,000

## 4. Systems Analyst, IT Services (Job ID: 4)

- Job Title: Systems Analyst
- Company: IT Services
- Location: Chicago
- Job Description: Analyze and design information systems to solve business problems
- Required Skills: SQL, System Analysis, Project Management, Communication
- Salary Range: 75, 000—105,000

## 5. Product Manager, Innovate LLC (Job ID: 5)

- Job Title: Product Manager
- Company: Innovate LLC
- Location: Boston
- Job Description: Oversee the development and delivery of products
- Required Skills: Product Management, Agile, Communication, Leadership
- Salary Range: 95, 000—135,000

These job opportunities match your qualifications and preferences, including programming languages, development frameworks, databases, operating systems, cloud platforms, Agile methodologies, and version control. I hope this helps you find your next career move!

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# CONCLUSION & FUTURE ENHANCEMENT



# CONCLUSION

- Current job search systems struggle to meet young adults' needs in today's fast-paced job market.
- A new system is proposed that uses AI to provide personalized job recommendations and skill development resources.
- This system aims to empower young adults and improve the overall job market experience.
- Data privacy, security, and inclusivity are important considerations for the new system.

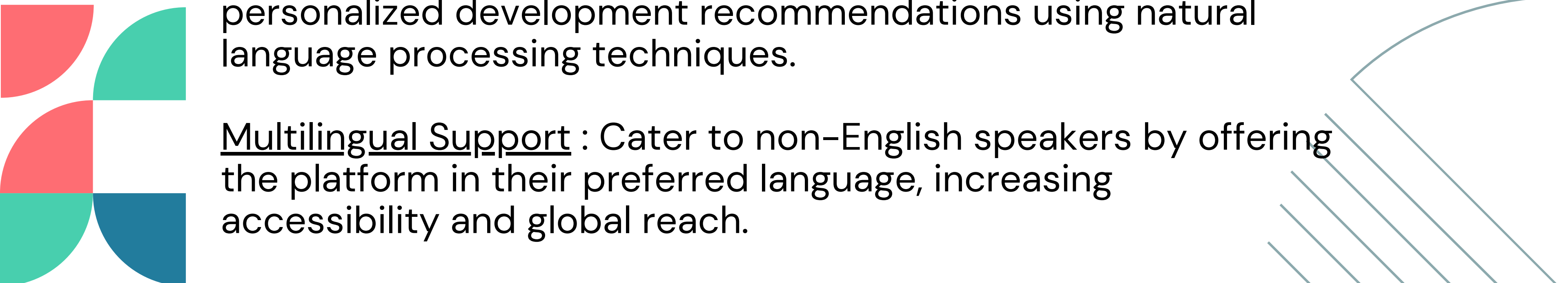




# FUTURE ENHANCEMENTS

Personalized Career Pathing : Analyze user skills, work history, and company trends to suggest suitable career paths, required skill development, and relevant educational programs. This equips users for emerging job roles and industries.

AI-powered Interview Practice : Simulate real-world interviews based on job descriptions, providing feedback and personalized development recommendations using natural language processing techniques.



Multilingual Support : Cater to non-English speakers by offering the platform in their preferred language, increasing accessibility and global reach.

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**THANK YOU**