

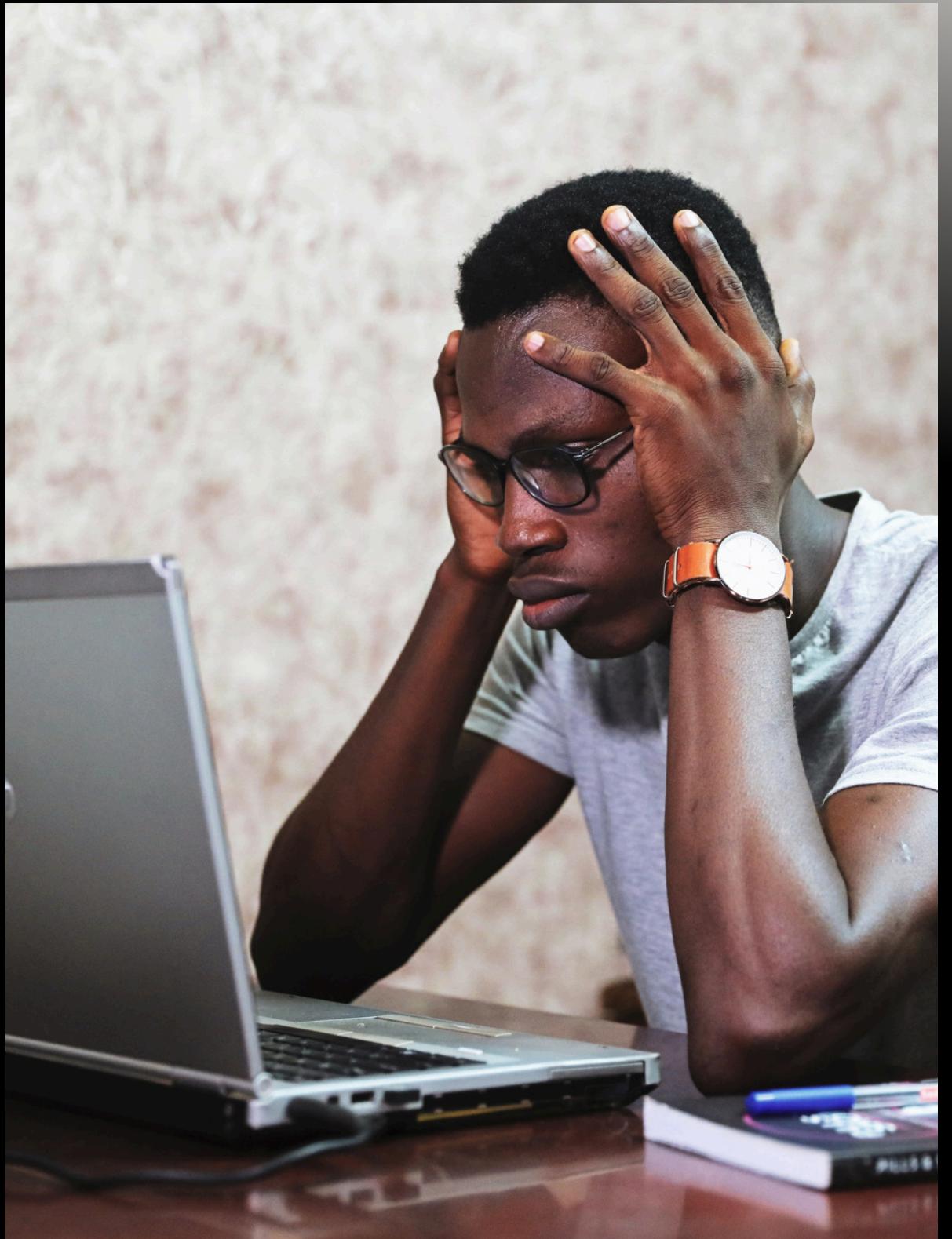
# SMART CAREER APPLICATION ASSISTANT

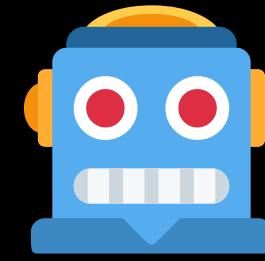


PRESENTED BY: MONIKA

# ! PROBLEM STATEMENT

- Job seekers struggle with understanding what skills matter for a role.
- Resumes are often unclear, outdated, or poorly structured.
- Students lack personalized career guidance.
- Existing tools are generic and not tailored to individual profiles.





# WHY USE AI AGENTS?

- Agents automate reasoning and choose tools dynamically.
- They can read resumes, extract skills, search the web, and generate answers.
- Handles complex flows: search → analyze → summarize → recommend.
- Provides personalized, context-aware career guidance.



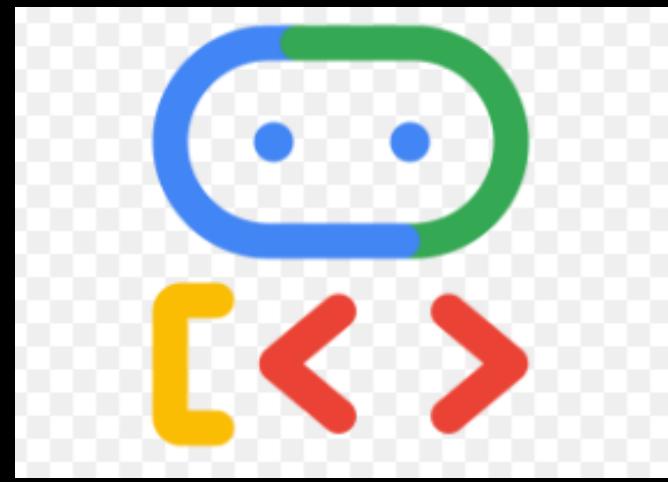


# SYSTEM ARCHITECTURE (HIGH-LEVEL)

- User uploads resume or asks a question
- Extract Skills (Python function)
- RAG-style agent reasoning
- Uses Google Gemini for LLM reasoning
- Uses google\_search tool for real-time market data
- Final structured recommendations returned

User → Skill Extractor → SmartCareer Agent → google\_search → Response

# TECHNOLOGIES USED



- Python
- Google ADK
- Gemini 2.5 Flash Lite
- google\_search Tool
- pdfplumber (PDF parsing)
- Kaggle Notebook Environment



# DEMO — CAREER GUIDANCE Q&A

- Ask: "What skills should I highlight for Data Scientist role?"
- Agent uses google\_search for 2025 trends
- Returns actionable skill suggestions
- Helps beginners understand real-time job market needs



```
text="""
For a junior data scientist role in 2025, you should highlight a blend of technical and soft skills that demonstrate your foundational knowledge and eagerness to learn.
```

Here are the key skills to emphasize:

```
* **Programming Languages (Python, R, SQL):** Proficiency in Python is highly recommended due to its extensive libraries for data manipulation (pandas, NumPy), statistical analysis, and machine learning (scikit-learn, TensorFlow). R is also a valuable skill, especi
```

# DEMO—RESUME ANALYZER

- Upload a resume (.pdf)
- Extract text with pdfplumber
- Identify technical skills
- Summarize profile
- Suggest job roles
- Provide resume improvements

```
#Demo 2: Resume Analyzer
resume_text = """
Priyanka:
Experienced in Python, SQL, pandas, scikit-learn.
Built dashboards using matplotlib and seaborn.
Used Docker to deploy models to cloud.
"""

skills = extract_skills(resume_text)
```

## \*\*1. Candidate Summary:\*\*

- \* Proficient in core data science programming languages and libraries.
- \* Experienced in data visualization and model deployment.
- \* Demonstrates practical application of data science tools for building and deploying solutions.



# \$ Demo – Salary Range Checker

- Agent uses google\_search
- Fetches up-to-date salary data
- Summarizes U.S. salary range
- Helps candidates negotiate better

```
text="""
Here's a summary of the typical salary range for a junior data scientist in the USA in 2025:

* **Average Salary:** The average annual salary for a Junior Data Scientist in the US in 2025 falls between approximately $72,575 and $122,738, with some sources indicating an average closer to $87,963.
* **Salary Range:** The majority of junior data scientist salaries typically range from $67,535 to $136,000. However, salaries can be as low as $37,500 and as high as $196,500.
* **Hourly Breakdown:** This translates to an approximate hourly rate of $35 to $59.
* **Factors Influencing Salary:** Salary can vary significantly based on location, year
```





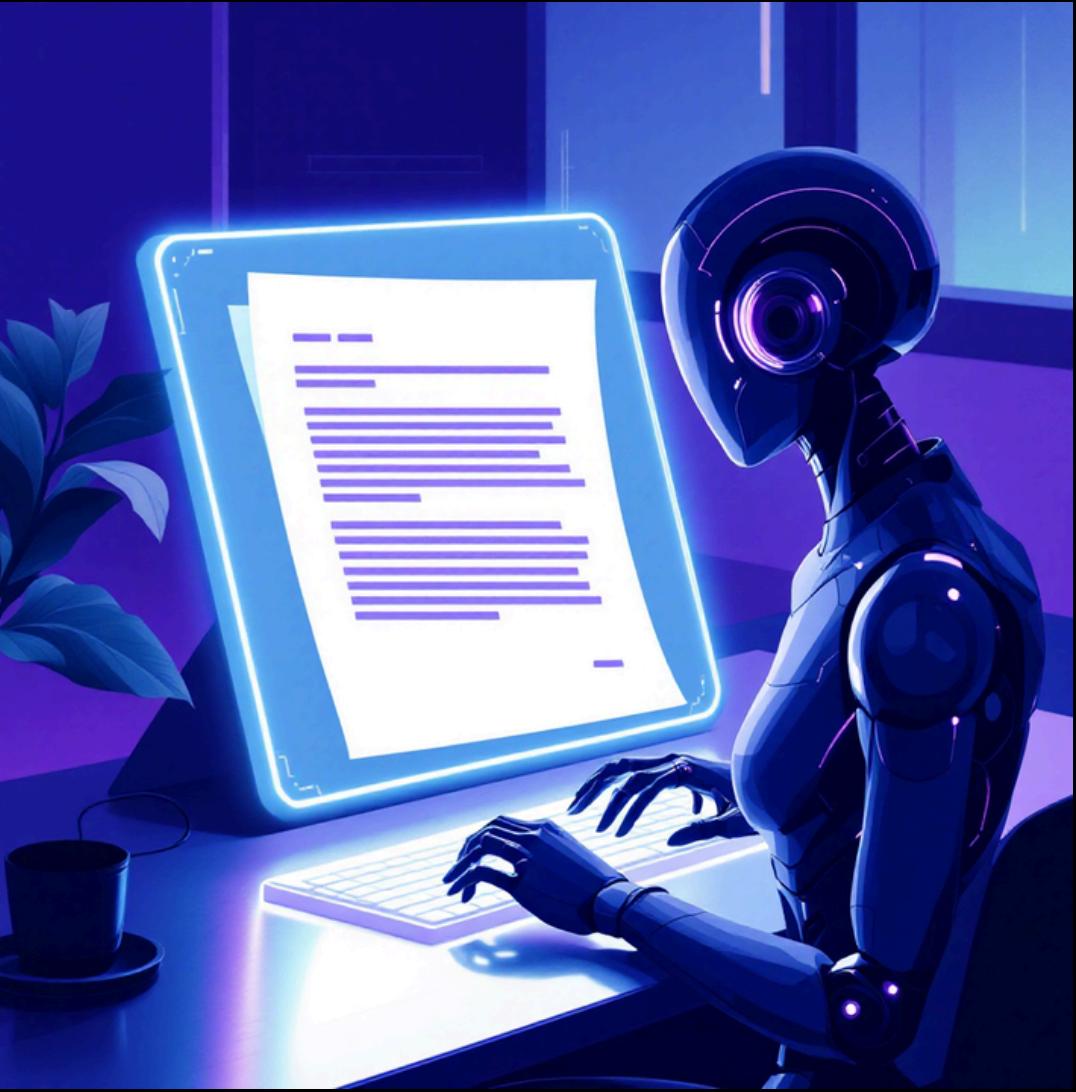
# DEMO — COVER LETTER GENERATOR

- Reads resume
- Builds a professional cover letter
- Tailored to job role and skills

text="" "Dear [Hiring Manager Name],

I am writing to express my enthusiastic interest in the Junior Data Scientist position at [Company Name], as advertised on [Platform where you saw the advertisement]. With my foundational knowledge in data science principles and practical experience with key tools, I am eager to contribute to your team and grow within a dynamic organization.

My skill set includes proficiency in Python, SQL, and essential libraries such as pandas and scikit-learn for data manipulation and model building. I have experience in data visualization using matplotlib and seaborn to derive actionable insights, and I've utilized Docker for deploying models to the cloud. I am confident in my ability to clean, analyze,



# THE BUILD PROCESS

- Defined skills extraction logic in Python
- Configured ADK Agent + Gemini model
- Added google\_search tool
- Created multi-step workflows
- Wrapped everything inside Kaggle notebook
- Tested with sample resumes





# CONCLUSION



## Personal AI Assistant

Smart Career acts as a personal AI career assistant.



## Personal AI Assistant

Smart Career acts as a personal AI career assistant.



## Automated Intelligence

Automates resume analysis and job search intelligence.



## Reliable Guidance

RAG + Agents = reliable, personalized, real-time guidance.



## Scalable Solution

Scalable for students, job seekers, and various applications.

**THANK  
YOU**