

# Skill Gap AI: Resume and Job Description Analyzer

Data Ingestion & Parsing · Skill Extraction · Gap Analysis · Dashboard & Reports

## Upload Resume

Choose a resume file



Drag and drop file here  
Limit 200MB per file • PDF, DOCX, TXT

Browse files



Resume\_DOC\_Sample.docx 26.5KB



## Upload Job Description

Choose a job description file



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jd doc.docx 26.2KB



## Milestone 1: Data Ingestion & Parsing

### Resume Preview

Aavula Laxmi  
Email: laxmi@example.com | Phone: 9XXXXXXXXX | Location: India  
Professional Summary  
Motivated Computer Science graduate with strong foundations in Python, data analysis, machine learning, and web technologies. Passionate about building intelligent systems and solving real-world problems.  
Technical Skills  
Python, Machine Learning, Deep Learning, NLP, SQL, Pandas, Matplotlib, Data Analysis, Data Visualization, HTML, CSS, Java, Git, Streamlit, Num Py.  
Soft Skills  
Communication, Problem Solving, Teamwork, Adaptability, Time Management, Critical Thinking, Leadership  
Projects  
Skill Gap Analysis System using NLP:  
- Resume and Job Description skill extraction  
- Skill matching and gap analysis  
- Streamlit-based UI with visual analytics  
Education  
B.Tech in Computer Science  
University Name | 2021 - 2025

### Job Description Preview

Job Description: Junior Data Analyst  
We are looking for a motivated Junior Data Analyst to join our analytics team. The candidate will work with data to generate insights, support business decisions, and create clear reports for stakeholders.  
Required Skills  
- Python programming  
- SQL and database querying  
- Data analysis and interpretation  
- Microsoft Excel  
- Data visualization (Matplotlib / Power BI)  
- Time Management  
Responsibilities  
Collect, clean, and analyze data  
Create dashboards and reports  
Support data-driven decision making  
Collaborate with cross-functional teams

## Milestone 2: Skill Extraction using NLP


## Resume Skills


### Technical Skills




### Soft Skills



 **Name:** Aavula Laxmi

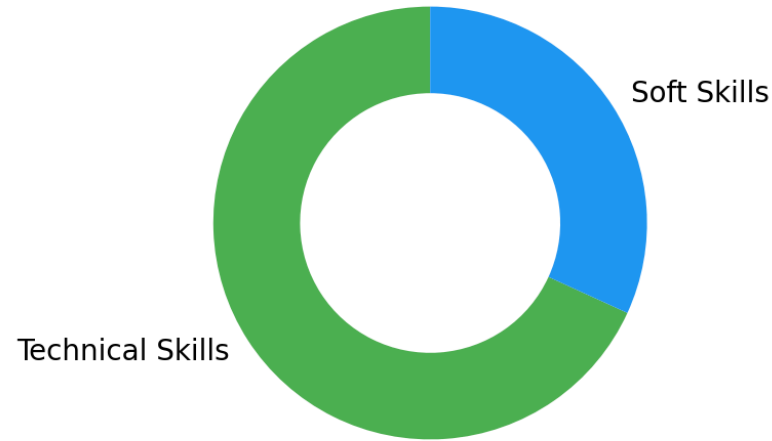
 **LinkedIn URL not found in resume**

 **Professional Summary:** Motivated Computer Science graduate with strong foundations in Python, data analysis, machine learning, and web technologies. Passionate about building intelligent systems and solving real-world problems.

### ✂ Detailed Skills:

- ✂ CSS (Technical)
- ✂ Data Analysis (Technical)
- ✂ Data Visualization (Technical)
- ✂ Deep Learning (Technical)
- ✂ Git (Technical)
- ✂ HTML (Technical)
- ✂ Java (Technical)
- ✂ Machine Learning (Technical)
- ✂ Matplotlib (Technical)
- ✂ NLP (Technical)
- ✂ Num Py (Technical)
- ✂ Pandas (Technical)
- ✂ Python (Technical)

## Resume Skill Distribution



Technical Skills

15

Soft Skills

7

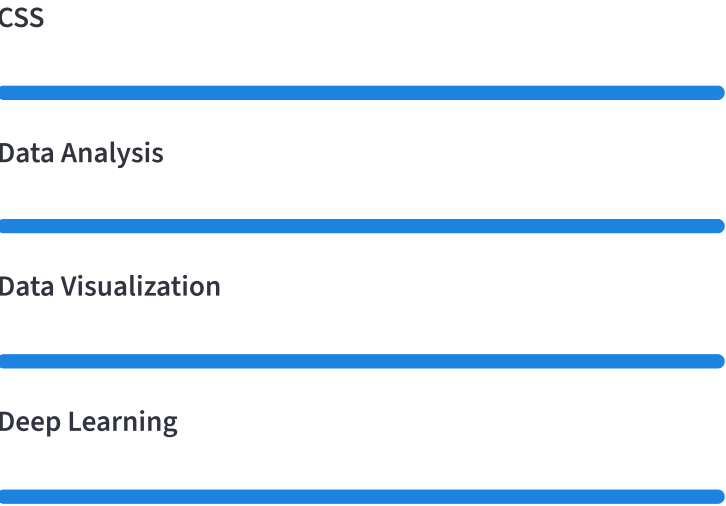
Total Skills

22

Avg Confidence

90.7%

### Detailed Skill Confidence



✂ SQL (Technical)

✂ Streamlit (Technical)

💛 Adaptability (Soft)

💛 Communication (Soft)

💛 Critical Thinking (Soft)

💛 Leadership (Soft)

💛 Problem Solving (Soft)

💛 Teamwork (Soft)

💛 Time Management (Soft)

Job Description Skills



✂ Detailed Skills:

✂ Data Analysis (Technical)

✂ Data Visualization (Technical)

✂ Database Querying (Technical)

✂ Matplotlib (Technical)

✂ Microsoft Excel (Technical)

✂ Power BI (Technical)

✂ Python (Technical)

✂ SQL (Technical)

💛 Time Management (Soft)

Git

HTML

Java

Machine Learning

Matplotlib

NLP

Num Py

Pandas

Python

SQL

Streamlit

Adaptability

Communication

Critical Thinking

Leadership

Problem Solving

Teamwork

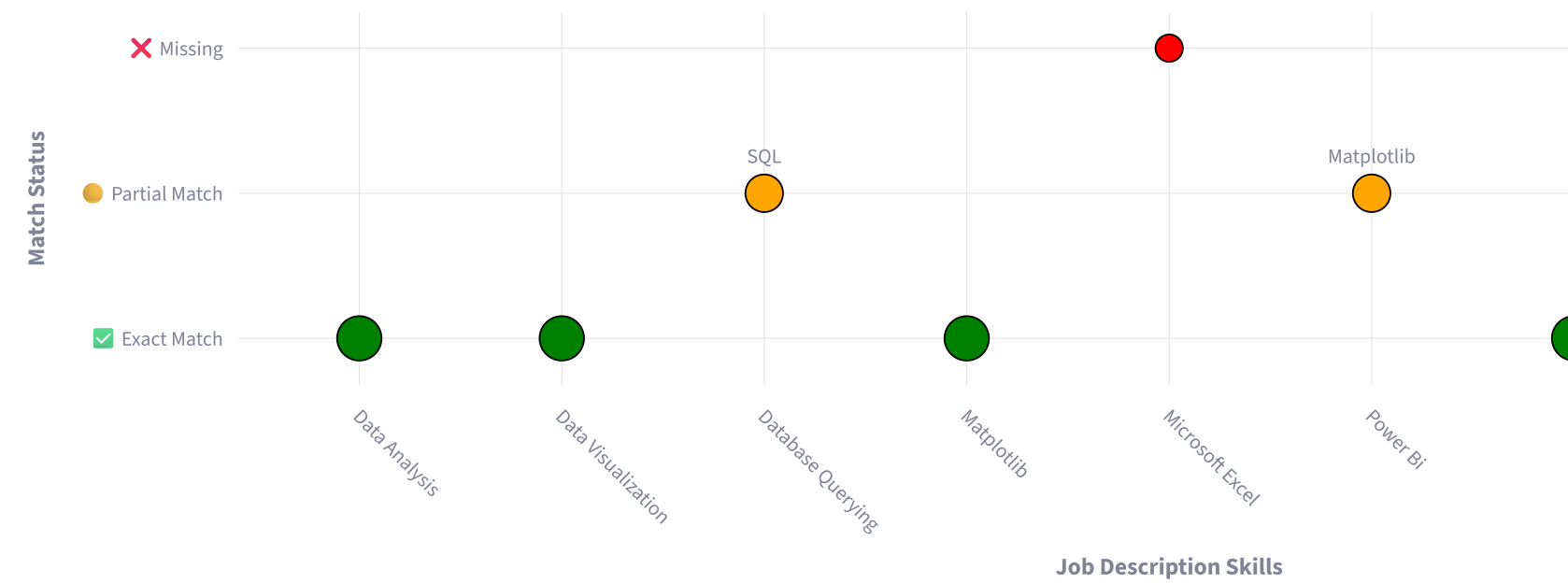
Time Management

# Milestone 3: Skill Gap Analysis & Similarity Matching

## Similarity Matrix

Comparing 22 resume skills with 9 job description skills

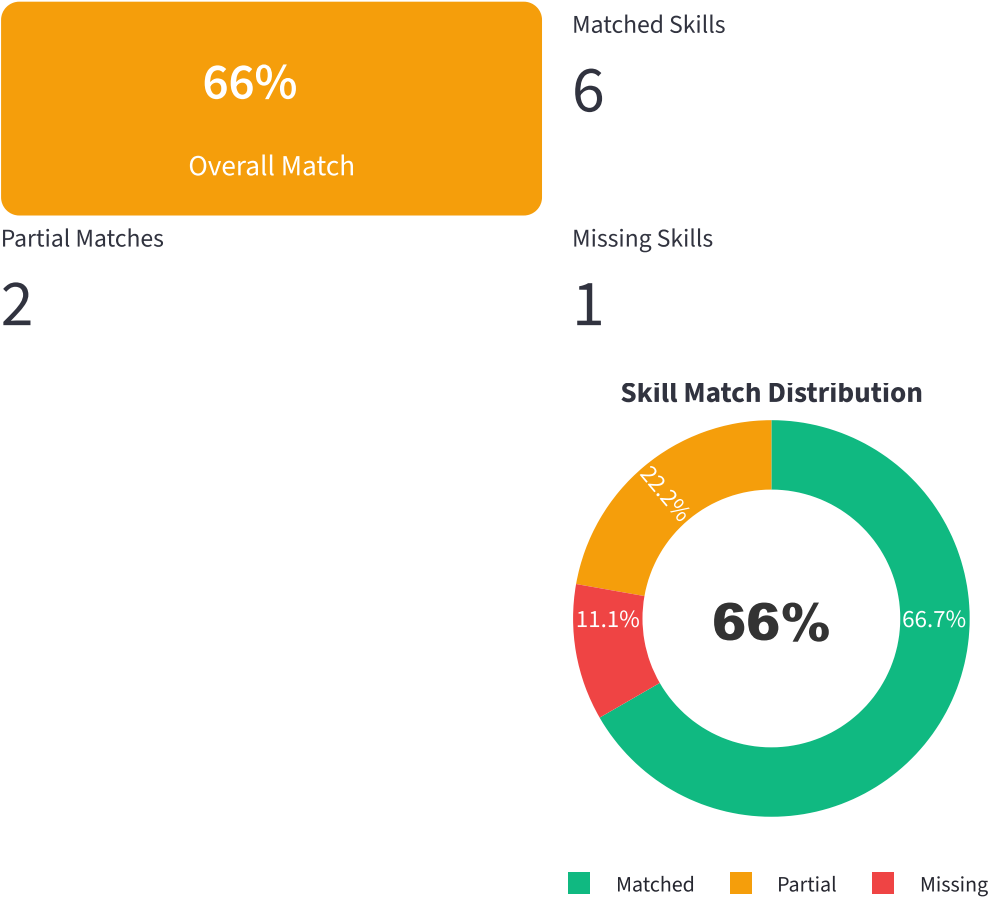
Showing first 15 resume skills



## Missing Skills

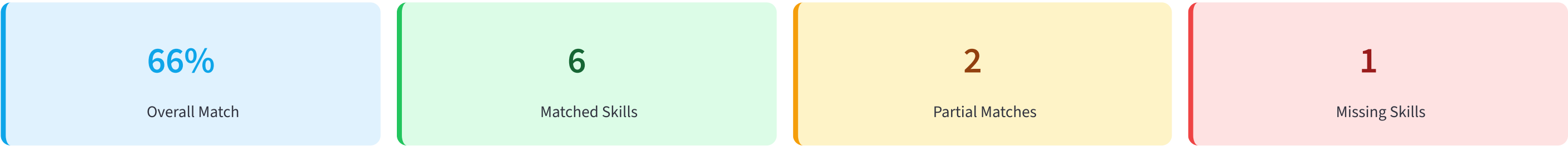
● Microsoft Excel

## Skill Match Overview

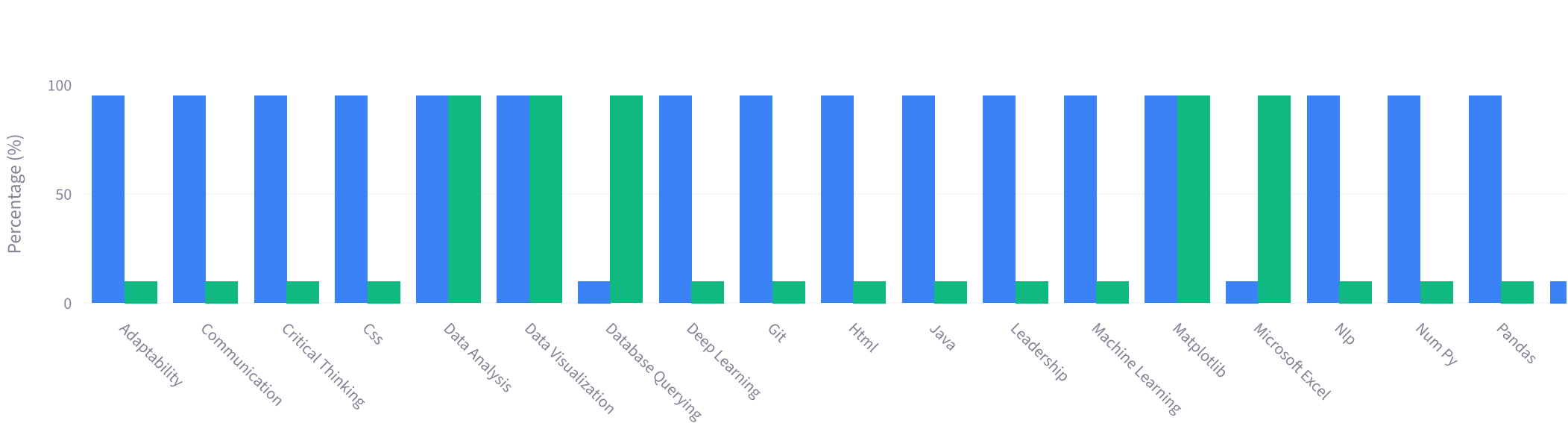


# Milestone 4: Dashboard & Report Export

## Performance Metrics



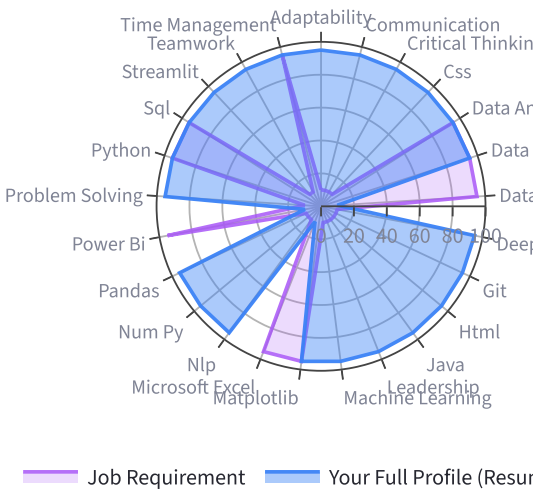
## Skill Match Overview



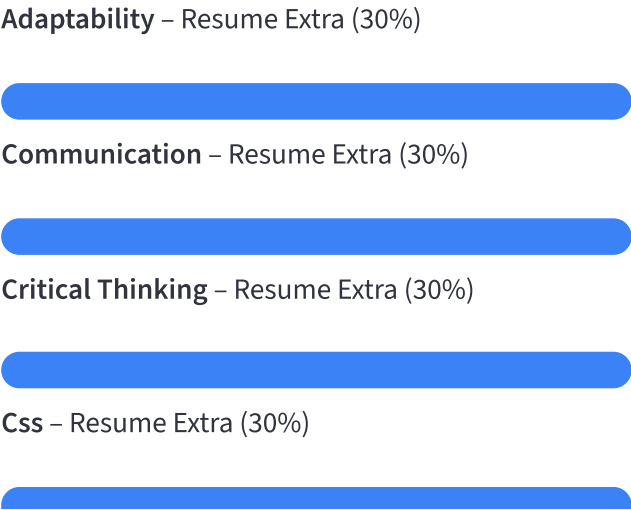
## Role View

☒ Job Seeker   ☐ Recruiter

### Your Complete Skill Alignment vs Job Re



## Skill Comparison



## Upskilling

Data Analysis – Perfect Match (100%)



Data Visualization – Perfect Match (100%)



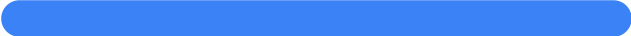
Database Querying – Partial Match (50%)



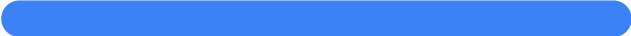
Deep Learning – Resume Extra (30%)



Git – Resume Extra (30%)



Html – Resume Extra (30%)



Java – Resume Extra (30%)



Leadership – Resume Extra (30%)



Machine Learning – Resume Extra (30%)



Matplotlib – Perfect Match (100%)



Microsoft Excel – Missing (20%)



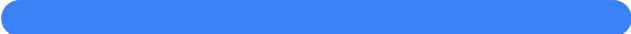
Nlp – Resume Extra (30%)



Num Py – Resume Extra (30%)



Pandas – Resume Extra (30%)



Power Bi – Partial Match (50%)

## Recommendations

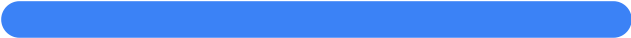
Improve **Database Querying** through courses and hands-on projects

Improve **Microsoft Excel** through courses and hands-on projects

Improve **Power Bi** through courses and hands-on projects



Problem Solving – Resume Extra (30%)



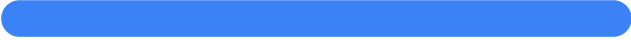
Python – Perfect Match (100%)



Sql – Perfect Match (100%)



Streamlit – Resume Extra (30%)



Teamwork – Resume Extra (30%)



Time Management – Perfect Match (100%)



Key Skill Match Percentages



Adaptability



Communication



Critical Thinking



Css



Data Analysis



Data Visualization



Database Querying



Deep Learning



Git



Html



Java



Leadership



Machine Learning



Matplotlib



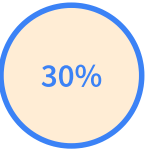
Microsoft Excel



Nlp



Num Py



Pandas



Power Bi



Problem Solving



Python



Sql



Streamlit



Teamwork





Time Management



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