

Agent Name

Resume Analyser

Agent Description

Analyse your resume against any job description to discover alignment level, matching skills, and missing keywords. Receive a detailed AI-generated report with improvement suggestions to optimize your resume for better job fit.

Agent Workflow

1. Get User File

Get user file(s) with prompt Upload your resume and save to *resume*

Action:

1  **Get User File**
Get user file(s) with prompt Upload your resume and save to *resume*

Output:

1 *User Input*  **Rerun Action**  0.01s  **Success** 
Upload your resume*
• Afreen_Sudheer_IBM_Software_Engineer_Resume.pdf

2. Get User Input

Get user input type *textarea* with prompt *Enter the job description:* and save to *job_text*

Action:

2  **Get User Input**
Get user input type *textarea* with prompt *Enter the job description:* and save to *job_text*

Output:

2 User Input

Rerun Action 0.01s Success

Enter the job description: *

Introduction At IBM, Software Developers are at the heart of everything we build. Our solutions keep planes and trains on schedule, make banking transactions lightning fast, and keep the digital world secure. Why Join Us? · Hands-on learning: Apply your classroom knowledge to real-world problems. · Mentorship: Work with some of the deep tech engineers in the industry. · Future-ready skills: You'll gain access and experience in cutting-edge technologies. · Career pathway: A successful internship can lead to a full-time role at IBM. If you're a final-year undergrad student excited to code, test, break, and rebuild—all while learning from experts and shaping technology that impacts millions—apply now and start your journey with IBM.

Who We are We at IBM Software Lab are developers, designers, and engineers who drive IBM's product development strategy. At Software team are the talented individuals who drive every stage of building, managing, and supporting our products. From uncovering user needs and crafting intuitive designs, to writing innovative code, testing functionality, and guaranteeing exceptional quality, Our team members are the masterminds behind conceptualizing, building, and maintaining our software. We're committed to empowering you with the skills, expert guidance, and resources you need to not only excel in your role but also take ownership of your career growth and aspirations Now, we're opening the door for final-year undergrad students who want to start their career with a 6-month internship and grow into full-time roles. This is your chance to work with the latest IBM Software technologies, learn from industry experts, and see your code make a real impact. Your role and responsibilities During your internship, you'll work closely with Software Product experts on real projects in areas like Machine Learning to Generative AI , Automation, Data & AI, Security and Sustainability. You won't just shadow—you'll be building, testing, and improving software that matters. Collaborate with diverse teams, gaining communication and teamwork skills valued in any career. Required education Bachelor's Degree Required technical and professional expertise We value curiosity, problem-solving, and eagerness to learn. You don't need to know everything yet—we'll teach you. But we'd love to see some of these in your toolkit: · Programming experience in Go, Java, Python, or scripting languages. · Exposure to Frontend tools (React, Redux, AngularJS, JavaScript, HTML, CSS). · Interest in backend development with Python, Java, or Go. · Basic familiarity with test tools (e.g., Jest, Cypress, Codecept). · Basic familiarity with test automation using Ansible, Python. · Understanding of APIs (building, testing, and automating). · Experience using GitHub or other source code control systems. · Currently pursuing a Bachelor's degree in Computer Science or equivalent Preferred technical and professional experience If you've dabbled in these, great—if not, don't worry. You'll have a chance to learn here: · Cloud platforms (IBM Cloud, AWS, Azure, GCP). · DevOps tools and practices. · Kubernetes, Docker, or OpenShift. · Linux systems. · Awareness of automation frameworks, data science concepts, or cloud architecture.

3. Generate Content

Invoke auto using *resume* with prompt auto:

Combine {{resume}} {{job_text}} into a single formatted text called {{combined_resume_jd}}.

Label each section clearly as “Resume:” and “Job Description:”.

Do not modify or summarize the content.

and save to *combined_resume_jd*

Action:

3  **Generate Content**
Invoke auto using `resume` with prompt auto... and save to `combined_resume_jd`

Output:

4. Generate Content

Invoke gpt-5 using *combined_resume_jd* with prompt gpt-5:

Compare the candidate's resume and the provided job description below to determine how similar they are in terms of role expectations, skills, and experience

Input: {{combined_resume_jd}}

Your tasks:

1. Provide a qualitative alignment report (not a numeric score) using levels High, Moderate, or Low
 2. Write a short reasoning paragraph (3–5 sentences) summarizing the overlap and key gaps
 3. List Matching Skills — skills, tools, and relevant keywords that appear in both
 4. List Missing or Unmentioned Skills — skills or tools in the JD that do not appear in the resume
 5. Give 5–10 actionable improvement suggestions on how to strengthen alignment with the role

Follow this exact markdown format:

Resume-ID Alignment Report

Overall Alignment Level: High / Moderate / Low – [One-line justification]

Reasoning:

<3-5 sentence explanation>

Matching Skills:

skill₁, skill₂, skill₃

Missing or Unmentioned Skills:
 $skill_1, skill_2, skill_3, \dots$

Suggestions to Improve Alignment:

- pointer 1

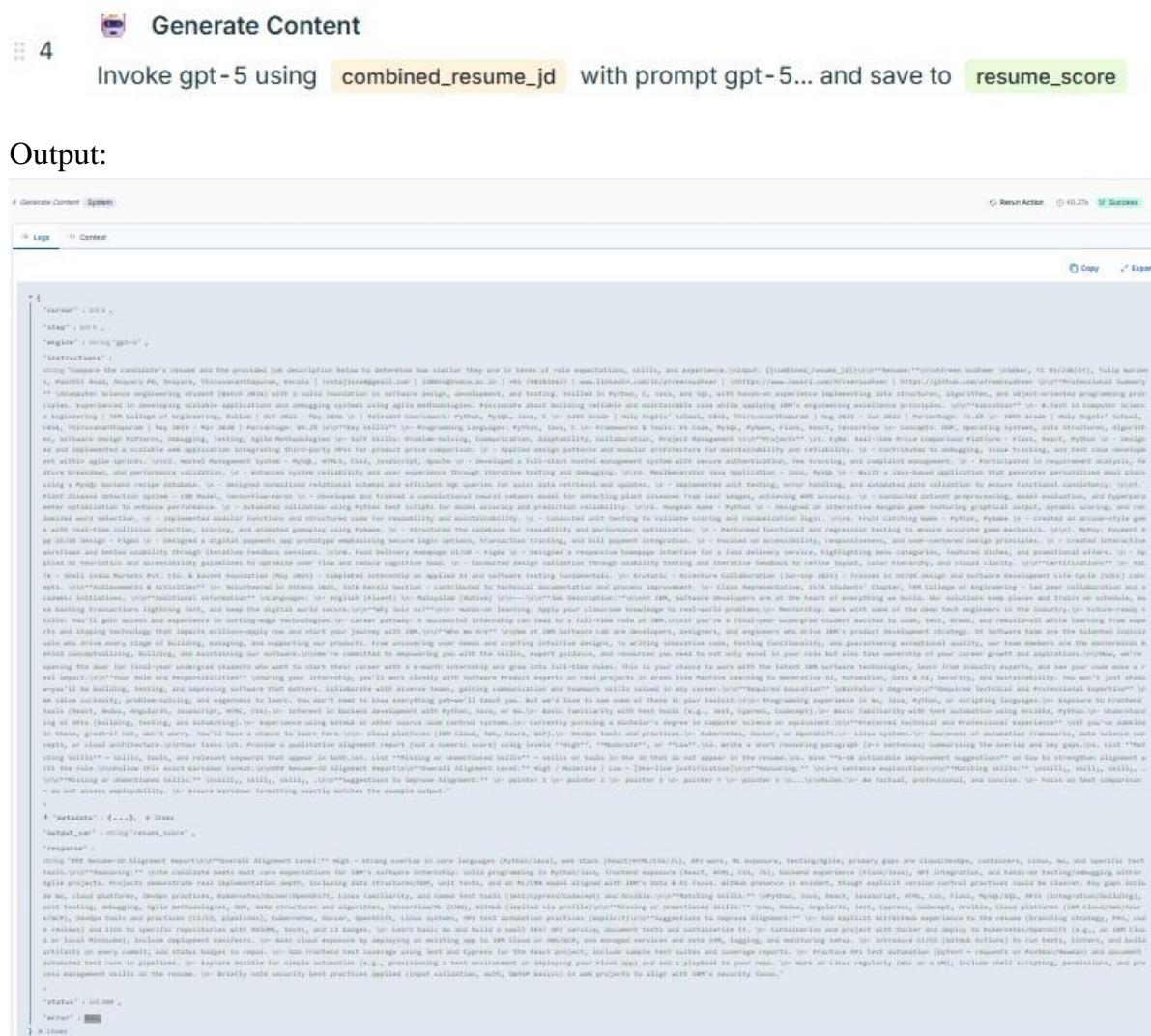
- pointer 2
 - pointer 3
 - pointer 4
 - pointer 5

...

Rules:

- Be factual, professional, and concise
 - Focus on text comparison — do not assess employability
 - Ensure markdown formatting exactly matches the example output and save to `resume_score`

Action:



5. Show User Output

Output *resume score* in auto format under the heading **Resume Analysis**

Action:

- 5 Show User Output
- Output `resume_score` in auto format under the heading Resume Analysis

Output:

5 User Output

Resume Analysis

Resume-JD Alignment Report

Overall Alignment Level: High – Strong overlap in core languages (Python/Java), web stack (React/HTML/CSS/JS), API work, ML exposure, testing/Agile; primary gaps are cloud/DevOps, containers, Linux, Go, and specific test tools.

Reasoning:
The candidate meets most core expectations for IBM's software internship: solid programming in Python/Java, frontend exposure (React, HTML, CSS, JS), backend experience (Flask/Java), API integration, and hands-on testing/debugging within Agile projects. Projects demonstrate real implementation depth, including data structures/OOP, unit tests, and an ML/CNN model aligned with IBM's Data & AI focus. GitHub presence is evident, though explicit version control practices could be clearer. Key gaps include Go, cloud platforms, DevOps practices, Kubernetes/Docker/OpenShift, Linux familiarity, and named test tools (Jest/Cypress/Codecept) and Ansible.

Matching Skills:
Python, Java, React, JavaScript, HTML, CSS, Flask, MySQL/SQL, APIs (integration/building), unit testing, debugging, Agile methodologies, OOP, data structures and algorithms, TensorFlow/ML (CNN), GitHub (implied via profile)

Missing or Unmentioned Skills:
Go, Redux, AngularJS, Jest, Cypress, Codecept, Ansible, Cloud platforms (IBM Cloud/AWS/Azure/GCP), DevOps tools and practices (CI/CD, pipelines), Kubernetes, Docker, OpenShift, Linux systems, API test automation practices (explicit)

Suggestions to Improve Alignment:

- Add explicit Git/GitHub experience to the resume (branching strategy, PRs, code reviews) and link to specific repositories with README, tests, and CI badges.
- Learn basic Go and build a small REST API service; document tests and containerize it.
- Containerize one project with Docker and deploy to Kubernetes/OpenShift (e.g., on IBM Cloud or local Minikube); include deployment manifests.
- Gain cloud exposure by deploying an existing app to IBM Cloud or AWS/GCP; use managed services and note IAM, logging, and monitoring setup.
- Introduce CI/CD (GitHub Actions) to run tests, linters, and build artifacts on every commit; add status badges to repos.
- Add frontend test coverage using Jest and Cypress for the React project; include sample test suites and coverage reports.
- Practice API test automation (pytest + requests or Postman/Newman) and document automated test runs in pipelines.
- Explore Ansible for simple automation (e.g., provisioning a test environment or deploying your Flask app) and add a playbook to your repo.
- Work on Linux regularly (WSL or a VM); include shell scripting, permissions, and process management skills on the resume.
- Briefly note security best practices applied (input validation, auth, OWASP basics) in web projects to align with IBM's Security focus.

Tools and Frameworks Used

- **Agent.ai** – No-code AI workflow builder used to design and automate the agent.
- **GPT-5** – Large Language Model used for intelligent text comparison and report generation.
- **Auto Model (Agent.ai Engine)** – Used to preprocess and combine inputs efficiently.
- **OpenAI API Integration** – Backend AI service powering content generation.

- **File Upload Module (Agent.ai)** – Enables users to upload resumes in PDF format.
- **Text Input Module (Agent.ai)** – Accepts job descriptions for analysis.
- **Prompt-Driven Workflow Automation** – Connects each action from input to output in sequence.
- **Markdown Output Renderer** – Used to display formatted alignment reports neatly in the UI.
- **GitHub** – For storing and documenting project details.