

# Automated CV Scoring and AI Feedback Agent

Currently performs well with black and white formatted resumes.

## Introduction

This project automates the evaluation of resumes by parsing, scoring, and generating AI-powered feedback reports. It is designed to process plain-text or black & white formatted resumes and compare them against provided job descriptions. The system sends feedback reports via email to each candidate.

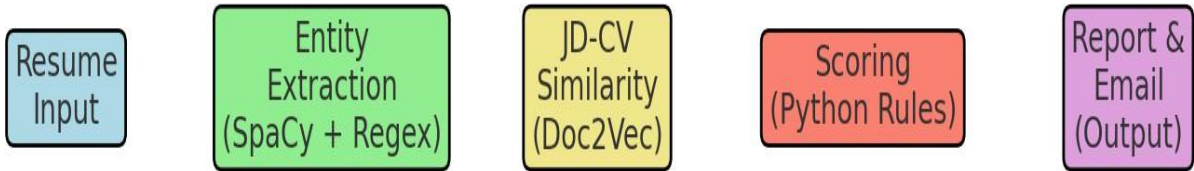
## Core Components

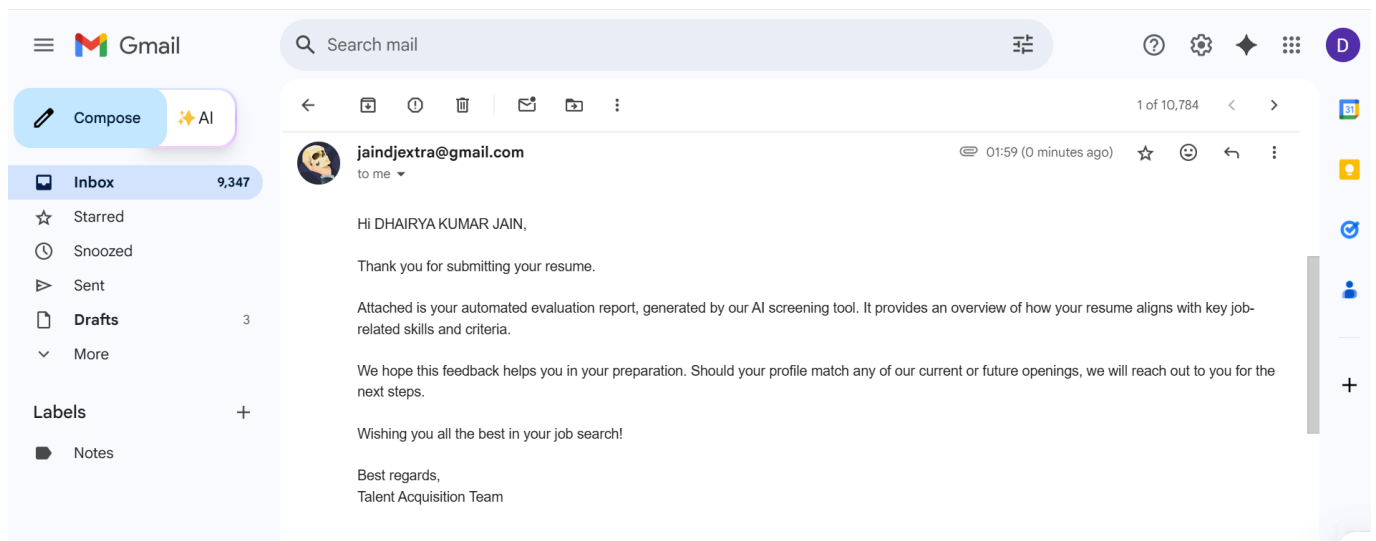
- 1. **Resume Parsing using SpaCy & Regex:** Extracted key fields like name, email, phone, education, experience, and skills. SpaCy handles NLP tasks while regex improves precision.
- 2. **JD–CV Similarity via Doc2Vec:** A Doc2Vec model was trained to evaluate how well a resume aligns with the given JD.
- 3. **Scoring Algorithm:** Scoring logic in Python based on: - Education: 20 - Experience: 10 - Skills Match: 20 - JD–CV Similarity Score: 50 (50% weight)
- 4. **Report Generation:** Used ReportLab to generate structured PDF feedback reports. Extracted data also saved for record-keeping.
- 5. **Automated Email:** Reports sent via email using *smtplib*.
- 6. **Integrated Pipeline:** Modular Python code connects all components into one efficient pipeline.

## Sample Score Breakdown

Criterion	Score (out of)
Education	20
Experience	10
Skills Match	20
JD–CV Similarity	50
Total	100

## Pipeline Diagram





## Automated Resume Scoring Report

Candidate Name: DHAIRYA KUMAR JAIN

Final Score: 57.72/100

Score Breakdown:

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JD\_CV Match Score: 30

Education Score: 18

Experience Score: 0

AI Skills Score: 10

Thank you for applying!