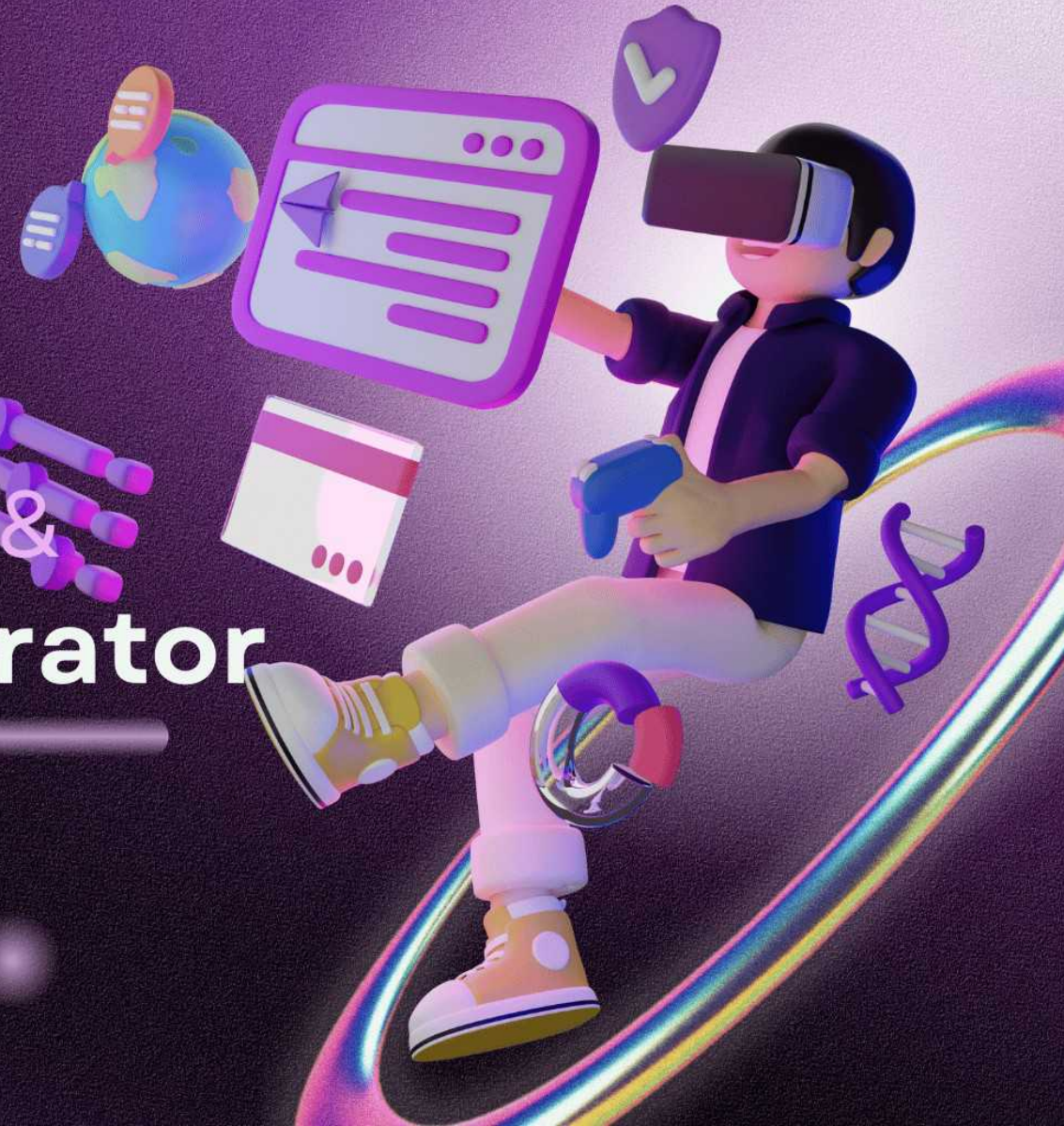




AI-Powered Resume & Cover Letter Generator





Problem Statement

- Job seekers struggle to customize resumes for every role.
- Recruiters receive generic applications, reducing chances of shortlisting.
- Manual tailoring is time-consuming & inefficient.





Objective AI-powered system

Analyzes job
description &
applicant's profile

Generates a customized
resume highlighting relevant
skills/experience.

Creates a professional
cover letter tailored to
the role





Core Features



Upload resume or
LinkedIn profile.

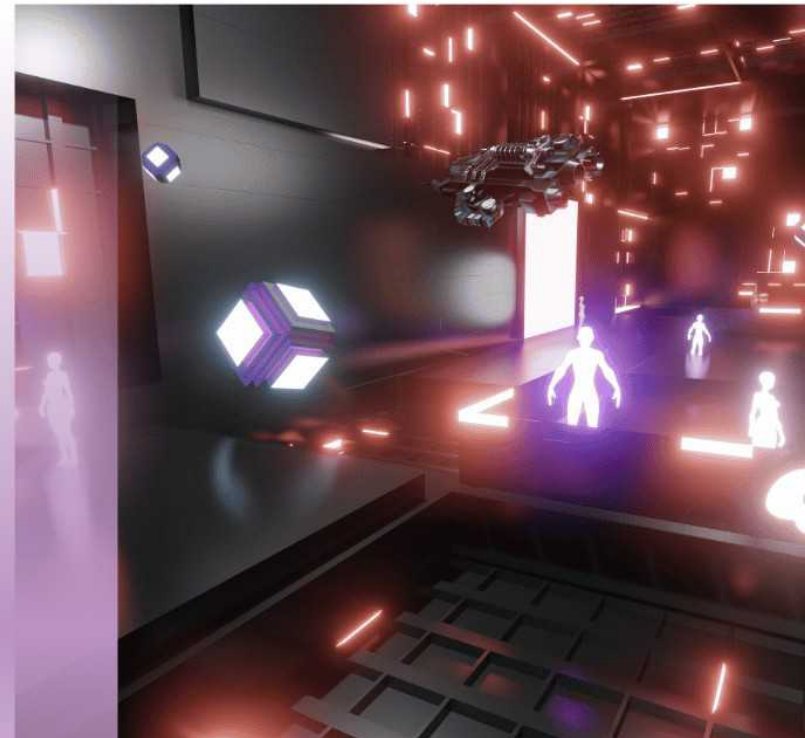
Paste job
description of the
target role.

AI extracts key
requirements &
matches with
candidate's skills

Generate

Optimized Resume
(ATS-friendly).

Tailored Cover
Letter.





System Architecture

Frontend (Web App):

- Simple upload & input form.

Backend (FastAPI / Python):

- Handles input & validation.

- Sends prompts to Gemini API.

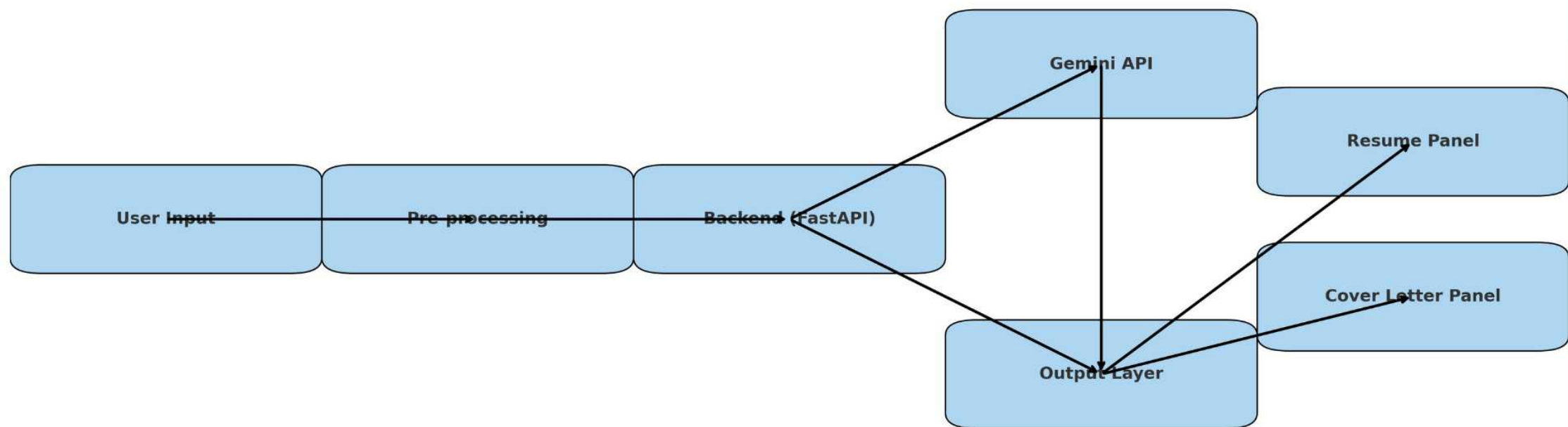
LLM (Gemini API):

- Customizes content, ensures relevance.

Output Layer:

- Returns formatted Resume & Cover Letter.







Tech Stack



- Frontend: HTML, CSS, Tailwind (or Streamlit for MVP).
- Backend: Python + FastAPI.
- LLM Integration: Google Gemini API.
- Libraries :
 - python-docx → Resume formatting
 - pypdf → PDF handling
 - dotenv → Secure API keys



Target Users

- Students & Freshers → Stand out in campus placements.
- Job Seekers → Tailor applications faster.
- HR & Career Services → Help candidates create professional documents.





Benefits



- Saves time by automating resume tailoring.
- Increases chances of ATS & recruiter shortlisting.
- Ensures professional, polished applications.
- Scalable for multiple industries/roles.



Future Scope

Multi-language support for global jobs.

Direct job portal integration (LinkedIn, Indeed).

Resume scoring & feedback feature.

AI-driven portfolio/LinkedIn optimization.





THANK YOU

