Internship Project Report

**Intern Name: VAIBHAV**

**Internship Period: 20/05/25-20/06/25**

**Company: Elevate Labs**

**Project Title**

**CV GEN AI - AN AI CV GENERATOR**

# 1. Project Overview

During my internship at Elevate Labs, I worked on designing and developing an open-source web application that assists users in creating professional resumes and CVs with the help of AI-generated suggestions. The goal of this project was to simplify the resume creation process and enable users—especially students and job seekers—to craft impactful and optimized resumes using intelligent OpenAI suggestions.

# 2. Objectives

* Build a responsive, user-friendly web application for resume generation.
* Secure and user-friendly interface.
* Integrate AI assistance for content generation (summary, bullet points, skill suggestions).
* Enable customization with templates and export options (PDF).
* Open source the project for broader usage.
* Ensure data privacy through client-side content generation.

# 3. Technologies Used

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| --- | --- |
| Technology / Challenge | Purpose / Solution |
| HTML/CSS | Frontend UI Development |
| Bootstrap | Styling and responsiveness |
| Node.js / Express | Backend routing and API |
| OpenAI API | AI suggestions and text generation |
| bycrypt | Password hashing function |
| GitHub | Version control and collaboration |
| Mongoose/Mongodb | Backend Database |
| Multer | File/photo uploads |
| Passport-Google Outh/Github | Secure Authentication |
| Pupeeter | Pdf Generation |

# 4. Features Developed

* User Interface for Resume Creation with live preview.
* AI-Powered Suggestions using GPT-based APIs.
* Multiple Resume Templates with theme switching.
* PDF Export with print-optimized formatting.
* Autosave and LocalStorage integration.
* Secure google and github authentication.

# 5. Open Source Contribution

Code is publicly available on GitHub under the MIT License. Documented with README, issue templates, and a contribution guide. Tech stack and future roadmap are detailed in the project wiki.  
  
Repository Link: https://github.com/VAIBHAVSHARMA608/CV-GEN-AI-UPDATED

# 6. Impact and Learnings

* Gained experience with REST APIs, React state, prompt engineering, and open source contribution.

# 7. Challenges and Solutions

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| --- | --- |
| Technology / Challenge | Purpose / Solution |
| Maintaining formatting with dynamic content | Bootstrap and Heroboxes including css grid and pagination properties |
| Cost management of AI APIs | Free API Using Postman and Google Cloud |
| PDF generation consistency | Puppeteer for free and open source pdf generation. |
| AI suggestion relevance | Used custom prompt tuning and editable suggestions. |

# 8. Future Scope

* Add multilingual support.
* OAuth login and cloud storage integration.
* Resume analytics (keyword density, ATS compatibility).
* Community-contributed templates.

# 9. Conclusion

The AI Resume Generator project provided hands-on experience in web development, AI integration, and product design. It has the potential to aid job seekers significantly. Thanks to the Elevate Labs team for their mentorship and support.