CAPSTONE PROJECT

AI RESUME & PORTFOLIO BUILDER

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OUTLINE

- **Problem Statement** (Should not include solution)

- **Proposed System/Solution**

- **System Development Approach** (Technology Used)

- **Algorithm & Deployment**

- **Result**

- **Conclusion**

- **Future Scope**

- **References**

PROBLEM STATEMENT

- Many students struggle to present their skills and projects in an attractive, professional format.

- Generic resume templates don't highlight individual strengths.

- A generative AI solution is needed that can automatically generate tailored resumes, cover letters, and portfolios based on student data, improving job and internship opportunities.

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PROPOSED SOLUTION

- The proposed system is an **AI-powered Resume & Portfolio Builder** that:

- Collects structured user information

- Generates ATS-optimized resumes

- Creates personalized cover letters

- Builds digital portfolio content

- Suggests improvements based on job role

- Exports resumes in PDF/DOCX format

- The system ensures professional formatting, keyword enhancement, and customization for different job roles.

SYSTEM APPROACH

Technology Used :

- **Frontend:** Streamlit (for creating the user interface)

- **Backend:** Python (for processing data and application logic)

- **AI Model:** OpenAI API / Hugging Face (for generating resume content)

- **Resume Formatting:** python-docx / PDF libraries

- **Version Control:** GitHub

- **Deployment:** Streamlit Cloud

ALGORITHM & DEPLOYMENT

Algorithm Steps

- User enters academic & professional details

- System preprocesses and structures input data

- AI model generates resume content

- Keyword optimization based on job role

- Resume formatted into professional template

- Export file generated (PDF/DOCX)

Deployment

- Hosted on Streamlit Cloud

- Source code maintained on GitHub

- Public access via deployment link

RESULT

- Successfully generates professional resumes within seconds

- Improves ATS compatibility

- Creates customized cover letters

- Enhances presentation of projects and skills

- User-friendly and efficient system

- The system significantly reduces resume preparation time.

CONCLUSION

- The AI Resume & Portfolio Builder simplifies resume creation using generative AI techniques.

- It enhances employability by generating professional, tailored, and ATS-optimized resumes.

- The system bridges the gap between student skills and recruiter expectations.

FUTURE SCOPE

- LinkedIn profile auto-optimization
- AI-based interview question generator
- Resume analytics & performance scoring
- Multi-language resume generation
- Direct integration with job portals
- Industry-specific resume customization

REFERENCES

Hugging Face – The AI community building the future.

Streamlit • A faster way to build and share data apps

Welcome to Python.org

1. Supervised learning — scikit-learn 1.8.0 documentation

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GITHUB LINK

■ **Github Link :** https://github.com/SrinidhiAganti/AI-RESUME-PORTFOLIO-BUILDER.git

■ **Deployment Link:**
   https://ai-resume-portfolio-builder-tapptyqgfxqvlqgkagvvakm.streamlit.app/

THANK YOU

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