

Aditya Raj Srivastava

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EDUCATION

Vellore Institute of Technology Bhopal University, Bhopal

B.Tech, Department of Computer Science and Engineering

September 2022 – Ongoing

CGPA : 8.35

Delhi Public School, Kalyanpur, Kanpur (CBSE)

Class XII Central Board of Secondary Education

Class X Central Board of Secondary Education

March 2020 – June 2022

Percentage : 89.2%

Percentage : 88.4%

PROJECTS

PixelPolish

Image Quality Enhancer

May 2025 - June 2025

- Engineered a production-ready image enhancement tool that improved resolution by up to 4x and reduced noise using Real-ESRGAN and DnCNN, processing over 500 test images.
- Designed a drag-and-drop interface using React.js and Tailwind CSS, maintaining 100% responsiveness across screen sizes and modern browsers.
- Implemented a FastAPI backend to handle uploads up to 10MB, including EXIF metadata correction, OpenCV-based face-aware blending, and aspect-ratio-preserving resizing.
- Boosted processing reliability by 60% on high-res images through tile-based enhancement and optimized memory usage.
- Added feedback support using EmailJS and deployed the live app via Vercel.

Tech Stack: React.js, Tailwind CSS, FastAPI, Python, Real-ESRGAN, DnCNN, OpenCV, Pillow, EmailJS, Framer Motion

Live Demo: <https://pixel-polish.vercel.app/>

CareerQuill

Resume Generation & ATS Scoring Platform

August 2025 - September 2025

- Developed a web platform enabling users to create resumes from 6 customizable templates via a guided form, with export options in PDF and DOCX formats while preserving layout fidelity.
- Implemented an NLP-based ATS scoring feature using Python, spaCy, and scikit-learn to compare resumes against job descriptions and suggest relevant keywords.
- Built authentication and a personal dashboard with Node.js, Express, MongoDB, and JWT, allowing each user to securely store and manage up to 10 resume versions.
- Integrated React.js/Tailwind CSS frontend with a Python microservice via REST API to process ATS scoring requests within 5–7 seconds under normal usage.
- Configured the document generation system with pdf-lib and docx, tested to reliably produce 50–100 resumes per day during development.

Tech Stack: React.js, Tailwind CSS, Node.js, Express, MongoDB, JWT, Python, FastAPI, spaCy, scikit-learn, pdf-lib, JSON

Technical Skills

Languages: Java, Python, JavaScript, SQL (MySQL), HTML, CSS, TypeScript

Frameworks & Libraries: React.js, Redux, Node.js, Express.js, Tailwind CSS, Axios, Zustand, ShadCN, scikit-learn, pdf-lib, spaCy

Databases: MySQL, MongoDB

Web Technologies: RESTful APIs, JWT Authentication, JSON, Multi-Browser Support, Responsive Design, WebRTC, Socket.io

Tools: Git, GitHub, Postman, VS Code, MongoDB Atlas, Render, Vercel

CS Core: Data Structures & Algorithms, Object-Oriented Programming, DBMS, Networking

ACHIEVEMENTS

- Ranked in the **Top 20%** (2,006 / 10,000+) at VIT University on GeeksforGeeks Coding Portal.
- **Created** 1,100 synthetic JDs (55 roles) with **9.41** Kaggle score for ATS testing and NLP research.

CERTIFICATIONS

- Bits and Bytes of Computer Networking
- Postman API Fundamentals Student Expert