

# 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** [[GitHub](#)] [[Live Demo](#)]

*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 reliability by 60% for high-res images with tile-based optimization and efficient memory use.
- Added Emails for responsive user feedback and deployed the app on Vercel for scalability and high availability.

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

**CareerQuill** [[GitHub](#)]

*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 5 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 for consistent resume production 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, HTML, CSS, TypeScript

**Frameworks & Libraries:** React.js, Redux, Node.js, Express.js, Tailwind CSS, Axios, Zustand, ShadCN

**Databases:** MySQL, MongoDB

**Web Technologies:** RESTful APIs, JWT Authentication, JSON, Multi-Browser Support, Responsive Design

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

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

## ACHIEVEMENTS

- Ranked in the **Top 17%** (1703 / 10,000+) at VIT University on GeeksforGeeks Coding Portal.
- Curated a synthetic dataset of **1,100** job descriptions across 55 roles; trending **#1** on Kaggle NLP category, with **7K+** views, **1,200+** downloads.

## CERTIFICATIONS

- Bits and Bytes of Computer Networking, Coursera (Google)
- Postman API Fundamentals Student Expert