

# VEDANSH DHAWAN

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## EDUCATION

### Bachelor's of Computer Science, VIT Vellore CGPA: 9.13

Expected 2026

- **Achievements:** Achieved S grade (highest possible) in Basic Electrical Engineering, Technical English, Java, C++, Operating Systems and Embedded Systems
- **Activities:** Core Committee Member of Blockchain Community and VIT Model United Nations Society; Member of Google Developers Student Club and Apple Developers Group

### Senior Secondary Education, Delhi Public School, Gurgaon

2013 - 2022

- **Academics:** Scored **90%** in Class 12 (CBSE) and **98.4%** in Class 10 (CBSE)

- **Achievements:** School House Captain; Active Member of Model United Nations Society

## SKILLS

### Programming Languages

Python, Java, C++, C, JavaScript, TypeScript, HTML, CSS

### Data Analytics

BI & Tableau, Power BI, Excel, Data Visualization, Statistics

### Frameworks & Libraries

React.js, Express.js, Tailwind CSS, FastAPI

### Databases

MySQL, PostgreSQL, Oracle Database, MongoDB, SQL & PL/SQL

### Cloud & DevOps

AWS fundamentals (EC2, S3), Version Control: Git & GitHub

### AI & ML

Natural Language Processing (NLP), Machine Learning, OpenAI API

### Others

Microsoft Office Suite, Agile & Scrum methodologies, Basics of networking

## EXPERIENCE

### Software Intern

May 2024 – July 2024

Ericsson

Noida, Uttar Pradesh, India

- Spearheaded the development of five Python-based automation scripts designed for network diagnostics, reducing manual effort by 40% and improving troubleshooting efficiency by 30%.
- Executed over 100 test cases for telecom software validation, improving system reliability and reducing critical bugs by 25%.
- Collaborated with cross-functional engineering teams to analyze and optimize mobile network protocols, resulting in 20% faster issue resolution across key modules.
- Enhanced Linux system administration workflows through scripting, increasing daily telecom task efficiency by 35%.

## PROJECTS

### VDreamScape – AI-Powered Dream Analysis App

- Description: Built a full-stack dream analysis platform using AI to analyze and interpret user-submitted dreams into psychological narratives.
- Features: Symbol analysis, reflection prompts, responsive UI with light/dark themes.
- Implemented OpenAI API integration with fallback mocks, maintaining 99.9% uptime. [Live Demo](#)

### Personal Portfolio Website

- Technologies: React, TypeScript, Tailwind CSS, Express.js, PostgreSQL, OpenAI API, Framer Motion

- Features: Voice navigation, dark/light theme toggle, AI chatbot, animated UI, contact form with backend integration.

- Deployment: Fully SEO-optimized, deployed via Vercel. [Live Demo](#)

## **AI-powered Résumé Optimization & Cover Letter Generator**

- Technologies: React (TypeScript, Tailwind, shadcn/ui), Express.js, WebSockets, SQLite, Drizzle ORM, OpenAI API
- Features: Real-time ATS scoring, keyword/relevancy analytics, batch personalized cover letter generation.
- Deployment: Privacy-first local storage design, deployed on Replit with live ATS scoring and PDF export.

## **Advanced Health News Analysis Platform – AI-Powered NLP & Analytics**

- Developed an end-to-end AI platform for analyzing health news articles with support for URL extraction, file uploads, direct text input, and abstractive summarization using PEGASUS and other transformer-based models.
- Implemented a 9-stage preprocessing pipeline (normalization, tokenization, TF-IDF, embeddings) and evaluated models using 29 metrics, including ROUGE, semantic similarity, readability, and inference efficiency.
- Designed interactive dashboards with radar charts, word clouds, and comparative performance visualizations; integrated semantic search and GPT-powered chat interface for intelligent querying.
- Technologies: Python, Streamlit, Hugging Face Transformers, NLTK, Scikit-learn, Plotly, BeautifulSoup.

## **CERTIFICATIONS**

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- Data Fundamentals – IBM-SkillsBuild
- Goldman Sachs Operations Job Simulation
- Microsoft Azure AI Essentials Professional Certificate: Microsoft and LinkedIn
- Deloitte Australia Data Analytics Job Simulation
- AWS Educate: Introduction to Cloud 101 – Amazon Web Services (AWS)
- J.P. Morgan - Quantitative Research Job Simulation
- Prompt Engineering & Programming with OpenAI — Columbia+
- Foundational C# with Microsoft — freeCodeCamp
- Introduction to MongoDB: MongoDB

## **HONORS & AWARDS**

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- Gold Medal: Continuous academic excellence in high school, Delhi Public School Gurgaon
- National Topper, Mathematics and IT: Achieved full marks in national final exams in class 10th board exams
- Photography and Editing Competition: 2nd Prize, Blue Bells Public School, Gurgaon