

# VANSHIKA AWASTHI

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## Education

### Vellore Institute of Technology

July 2022 – July 2026

Bachelor of Technology (B.Tech) in Computer Science and Engineering

- Cumulative GPA: 8.59/10

## Technical Skills

**Programming & Backend:** JavaScript, Java, Python, Node.js, Express.js, React, Flask, REST APIs, MySQL, MongoDB, Amazon Web Services (AWS), UiPath (basic process automations), Linux, Git

**Machine Learning & Data Tools:** NumPy, Pandas, Matplotlib, Generative AI, TensorFlow, Scikit-learn

## Projects

### IntelliCRM | Multi-Tenant CRM System | FullStack + Automation

September 2025 – Ongoing

- Tech Stack:** MongoDB, Express, React, Node.js, Tailwind CSS, Amazon Web Services(AWS)
- Architecting a multi-tenant CRM platform with automated workflows, customer insights, and role-based access control.
- Developing Node.js microservices for data processing, workflow automation, and customer analytics.
- Implementing a tenant-isolated PostgreSQL schema using RLS (Row Level Security), significantly improving scalability, security, and cross-tenant performance.

### AI Quotev | AI Quiz Generator | Generative AI + FullStack | [GitHub](#)

May 2025 – June 2025

- Tech Stack:** TypeScript, Tailwind CSS, React, Gemini API, MongoDB, Prisma ORM, Next.js
- Engineered a dynamic quiz-generation platform using Gemini API to automatically create relevant questions with real-time scoring and feedback.
- Integrated MongoDB + Prisma ORM, improving leaderboard query performance by 30%.
- Refined prompt engineering and evaluation logic, achieving 90% relevance accuracy during validation.
- Designed a scalable Next.js architecture enabling modular workflows and maintainable code for future automation features.

### BeatWell | Heart Attack Risk Predictor | Machine Learning + FullStack | [GitHub](#)

July 2024 – April 2025

- Tech Stack:** TypeScript, React, Node.js, Python (Flask, Scikit-learn, XGBoost Model), Amazon Web Services
- Developed an ML-powered prediction system using XGBoost to analyze 13 health parameters for risk scoring.
- Implemented MySQL for structured data storage, reducing retrieval latency by 35%.
- Deployed via AWS Amplify, ensuring reliable multi-device accessibility.
- Achieved ~87% model accuracy on the UCI Cleveland dataset with full preprocessing and feature optimization.

### Brain Tumor Detection Model | CNN Classification Model | Deep Learning | [GitHub](#)

Feb 2024 – May 2024

- Tech Stack:** TypeScript, React, Node.js, TensorFlow, VGG16, Python, MySQL, Vercel, Jupyter Notebook
- Built a VGG16-based CNN model to classify MRI scans into tumor / non-tumor categories with 89% accuracy and 85% precision.
- Designed a robust pipeline for data preprocessing, image metadata storage, and prediction tracking using MySQL.
- Deployed the model on Vercel, enabling seamless and fast inference through a React + Node.js interface.

## Certifications

AWS Cloud Practitioner - CLF-C02 – Amazon Web Services

December 2025

SQL on Oracle Cloud – Oracle

July 2025

GenAI with WatsonX – IBM

August 2025

## Leadership Experience

### Stats-O-Locked Club

VIT Bhopal University

Student Co-ordinator

Feb 2024 – Feb 2025

- Led a cross-functional team of 20+ members across 4 departments, streamlining workflows and improving coordination for club operations
- Successfully organized 3 flagship events with 150+ registrations, achieving high engagement and positive feedback

## Additional Information

**Languages:** English, Hindi

**Interests:** Reading Tech Articles & books, Team Sports (Badminton, Basketball)