

VANSHIKA AWASTHI

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 github.com/vanshika-awasthi

Education

Vellore Institute of Technology (VIT)
Bachelor of Technology in Computer Science and Engineering

July 2022 – July 2026
CGPA: 8.62

Technical Skills

Programming & Backend: Java, Python, JavaScript, TypeScript, REST APIs, Node.js, Express.js

Databases: MySQL, MongoDB

Cloud & DevOps: Amazon Web Services (AWS), Microsoft Azure, Linux, Git

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

Projects

Real-Time Chat Web Application | Full Stack + Cloud **Ongoing**

- **Tech Stack:** MongoDB, Express.js, React, Node.js, Socket.IO, Redis, AWS
- Real-time chat application with one-to-one messaging using Socket.IO for bi-directional communication.
- Redis for message broadcasting, ensuring low-latency and scalable real-time updates across multiple servers.
- Secure Node.js and Express backend with REST APIs for authentication, messaging, and persistence.
- Deployed on Amazon Web Services (AWS) for consistent environments, scalability, and high availability.

AI Quotev | AI Quiz Generation Platform | Generative AI | GitHub **May 2025 – June 2025**

- **Tech Stack:** TypeScript, Next.js, React, MongoDB, Prisma ORM, Tailwind CSS
- Developed a full-stack AI-powered quiz platform using Gemini API and modular backend services for quiz generation and evaluation.
- Optimized MongoDB queries using Prisma ORM, improving leaderboard response times.
- Designed modular backend services for quiz generation, scoring, and leaderboard management.
- Improved prompt engineering and evaluation logic, achieving 90% relevance accuracy during validation.

BeatWell | Heart Attack Risk Analyzer | FullStack + ML | GitHub **July 2024 – April 2025**

- **Tech Stack:** React, Node.js, Python (Flask), Scikit-learn, XGBoost, MySQL, AWS
- Built ML-based prediction system using XGBoost to analyze 13 health parameters for heart attack risk.
- Implemented full data preprocessing, feature selection, and model optimization achieving 87% accuracy.
- Used MySQL for structured data storage, reducing retrieval latency.
- Deployed application using AWS Amplify, ensuring reliable access across devices.

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

Certifications

Microsoft Certified: Azure Fundamentals (AZ-900) – Microsoft

January 2026

AWS Certified Cloud Practitioner (CLF-C02) – Amazon Web Services

August 2025

GenAI with WatsonX – IBM

July 2025

SQL on Oracle Cloud – Oracle

Additional Information

Languages: English, Hindi

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