VANSHIKA AWASTHI

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⊙ github.com/vanshika-awasthi

Education

Vellore Institute of Technology   **July 2022 – July 2026**
Bachelor of Technology (B.Tech) in Computer Science and Engineering
- Cumulative GPA: 8.56/10

Technical Skills

Programming & Backend: JavaScript, Java, Python, Node.js, Express.js, React, Flask, REST APIs, MySQL, MongoDB, Amazon Web Services (AWS), Linux, Git
Machine Learning & Data Tools: NumPy, Pandas, Matplotlib, Generative AI, TensorFlow, Scikit-learn

Projects

IntelliCRM | *Customer Relationship Management System* | *FullStack Project*   **September 2025 – Ongoing**
- **Tech Stack:** MongoDB, Express, React, Node.js, Tailwind CSS, Amazon Web Services(AWS)
- Building a multi-tenant SaaS CRM with customer insights, automated workflows, and role-based access control for enterprise teams
- Developing Node.js microservices for data processing and analytics, integrated with a React.js frontend for seamless user experience
- Architecting a scalable database schema with tenant isolation and optimized performance using MongoDB

AI Quotev | *AI Quiz Generator* | Generative AI + FullStack Project | GitHub   **May 2025 – June 2025**
- **Tech Stack:** TypeScript, Tailwind CSS, React, Gemini API, MongoDB, Prisma ORM, Next.js
- Developed a web app that generates quizzes dynamically from custom topics using Gemini API with real-time scoring and feedback
- Integrated MongoDB with Prisma ORM for user data and quiz history, enabling 30% faster query response for leaderboards
- Fine-tuned prompt engineering and scoring logic to reach ∼90% accuracy in question relevance and answer evaluation during testing

BeatWell | *Heart Attack Risk Predictor* | *Machine Learning + FullStack Project* | GitHub   **July 2024 – April 2025**
- **Tech Stack:** TypeScript, React, Node.js, Python (Flask, Scikit-learn, XGBoost Model), Amazon Web Services
- Developed a medical prediction web app using XGBoost model for real-time heart attack risk analysis from 13 health parameters
- Implemented MySQL-backed storage for patient profiles, reducing data retrieval latency by 35% compared to flat file storage
- Achieved ∼87% prediction accuracy on UCI Cleveland dataset (80/20 split)and deployed via AWS Amplify for end-user access across devices

Brain Tumour Detection Model | *Classification Model* | *Machine Learning Model* | GitHub   **Feb 2024 – May 2024**
- **Tech Stack:** TypeScript, React, Node.js, TensorFlow, VGG16, Python, MySQL, Vercel, Jupyter Notebook
- Built a CNN-based model using VGG16 transfer learning to classify brain MRI scans into tumor/non-tumor categories
- Integrated an MySQL database to manage labeled image metadata and model predictions, allowing for efficient image retrieval and re-evaluation
- Achieved 89% accuracy and 85% precision across 253 MRI samples; deployed the trained model on Vercel for remote accessibility

Certifications

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