VANSHIKA AWASTHI

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Education

VIT Bhopal University	**Bhopal, Madhya Pradesh**

Bachelor of Technology in Computer Science and Engineering
Cumalative GPA : 8.38
Graduation Date: Jul 2026

RPS Public School (CBSE Board)	**Dharuhera, Haryana**

Higher Secondary Education [Class XII] | 87.3% — *Graduation Date: Jul 2021*
Matriculation [Class X] | 86% — *Graduation Date: May 2019*

Project Experience

AI Quotev
AI Quiz Generator   *May 2025 - Jun 2025*
- **Tech Stack:** Next.js, TypeScript, Tailwind CSS, OpenAI API, MongoDB, Prisma ORM
- Users can enter any topic to generate dynamic quizzes with real-time scoring and feedback.
- Migrated to MongoDB for flexible data handling and deployed the app on Vercel with a responsive UI using Tailwind CSS.

BeatWell
Predicting Heart Attack Risk   *Jul 2024 - Apr 2025*
- **Tech Stack:** Python Flask, Scikit-learn Random Forest model, HTML/CSS/JS, AWS
- Engineered a heart disease prediction web app using Flask and Scikit-learn, integrating a Random Forest model for real-time inference on clinical data.
- Achieved ~87% accuracy using a Random Forest model trained on 13 features from the UCI Cleveland dataset (80/20 split); deployed frontend via AWS Amplify.

Brain Tumour Detection Model
Brain Tumor Classification Model   *Jul 2023 - Sep 2023*
- **Tech Stack:** TensorFlow/Keras with transfer learning (VGG16), OpenCV for image preprocessing
- Implemented a CNN-based image classification model for brain tumor detection from MRI scans using TensorFlow/Keras with data augmentation and preprocessing pipelines.
- Achieved 89% accuracy and 85% precision on a custom MRI dataset (253 images, 80/20 split); applied data augmentation and resized images to 224×224 for model generalization.

Leadership Experience

Stats-O-Locked Club   *Feb 2024 - Feb 2025*
- Oversaw and optimized workflow coordination among distinct teams within the Stats-O-Locked club to ensure operational efficiency.
- Directed comprehensive event management activities, including planning, execution, and resource allocation, to achieve successful outcomes.

Additional Information

Skills: Python, Data Structure and Algorithms (DSA) in Java, MySQL, Amazon Web Service (AWS), HTML, CSS (Tailwind CSS)

Languages: English, Hindi

Certifications:
- MATLAB Onramp Certificate
- Simulink Onramp Certificate
- The Bits and Bytes of Computer Networking (Google)
- Gen AI with Watson (IBM)
- SQL on Oracle Cloud (Oracle)