VANSHIKA AWASTHI

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Education

VIT Bhopal University   **Bhopal, Madhya Pradesh**
Bachelor of Technology (B.Tech) in Computer Science and Engineering   *Graduation Date: Jul 2026*
(Specialization Cloud Computing and Automation)
Cumulative GPA : 8.49

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   *May 2025 - Jun 2025*
AI Quiz Generator | GitHub
- **Tech Stack:** Next.js, TypeScript, Tailwind CSS, OpenAI API, MongoDB, Prisma ORM
- Built a **dynamic quiz generation web app**, allowing users to enter custom topics and receive **real-time scoring and feedback**.
- **Migrated to MongoDB** with **Prisma ORM** for flexible data handling and **deployed** the app on **Vercel** with a responsive UI using Tailwind CSS.

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

Brain Tumour Detection Model   *Jul 2023 - Sep 2023*
Brain Tumor Classification Model | GitHub
- **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).

Technical Skills

- **Data Structures and Algorithms (DSA):** Practiced problem-solving by solving 100+ problems on LeetCode using Java
- **Programming Languages:** Java, Python, SQL
- **Web Development:** HTML, CSS, TypeScript, React.js, Next.js
- **Backend:** Express.js, Node.js, Flask
- **Database:** MySQL, MongoDB
- **DevOps/Cloud:** AWS
- **Tools/Other:** Git, GitHub, VS Code, Jupyter

Certifications

- AWS Cloud Practitioner - CLF-C02 - Amazon Web Services (2025)
- SQL on Oracle Cloud - Oracle (April 2025)
- GenAI with Watson - IBM (April 2025)
- The Bits and Bytes of Computer Networking - Google (Dec 2023)

Additional Information

Languages: English, Hindi

Leadership Experience::

Stats-O-Locked Club   *Feb 2024 - Feb 2025*
Student Co-ordinator
- Led a cross-functional team of 20+ members across 4 departments, streamlining workflows and improving coordination for club operations.
- Successfully organized a flagship event with 100+ registrations, achieving high engagement and positive feedback.