

AVADHESH KUMAR SHAH

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 github.com/avadheshgithub

Education

VIT Bhopal University

Int. master of Technology in Computer Science and Engineering (GPA: 9.23 / 10.00)

Expected 05/2027

Bhopal, Madhya Pradesh

Govt. Excellence HS School Singrauli

Senior Secondary School Certificate (Class XII) - 92.6%

05/2022

Singrauli, Madhya Pradesh

Govt. Excellence HS School Singrauli

High School Certificate (Class X) - 96%

05/2020

Singrauli, Madhya Pradesh

Technical Skills

Programming Languages: C++, Python, R, JavaScript, HTML

Frameworks Libraries: Django, React.js, Node.js, Express.js, Tailwind CSS, NLP, Machine Learning

Tools Technologies: Git, Github, Postman, Notion, Figma

Cloud & Databases: AWS (S3, Athena, EC2), MongoDB, MySQL Workbench

Relevant Coursework: Data Structure & Algorithms (DSA), Operating System (OS), Computer Network (CN), DBMS

Experience

GirlScript Summer of Code (GSSoC)

(Jan'24 - May'24)

Open Source Contributor

- Collaborated on open-source projects, adding features and improving code quality.

Academic Research | VIT Bhopal

(Jan'25 –May'25)

Research Team Member

- Contributed as part of a 5-member team to the research paper titled "Cognitive E-KYC: A Convergence of Biometric Forensics and Digital Identity Validation" (published by IEEE).
- Developed a Cognitive E-KYC platform integrating OCR and OpenCV-based face verification to streamline identity verification processes.

Projects

Funskool Strike4 – AI Powered Connect4 Game | *React, TypeScript, Tailwind CSS, AI, Canvas API, JavaScript* **July'25**

- Implemented an interactive Connect 4 game featuring dual gameplay modes: competitive 2-player (local) and single-player vs AI. Featuring a smart opponent.
- A7x6 grid system with turn-based disk placement, supporting win-condition checks (horizontal, vertical, diagonal).
- AI-driven gameplay using Minimax with Alpha-Beta Pruning and Zobrist Hashing, enhancing move efficiency and achieving a 95% AI win/draw rate against intermediate players.

Automated Grading System– AI based Text Analysis and Feedback System | *Python, Django, NLP, ML, DL* **July'24**

- Developed a Grading Model system for analysis of Assignment texts along with Performance & Feedback dashboard.
- Implementing the solution by using Python, NLP techniques (Tokenization,Lemmatization), Machine learning for text analysis,grading, and feedback on student assignments, integrating PDF extraction and keyword matching.

Well-Scan – Healthy Organs Checkup | *Python, Django, OpenCV, MongoDB, ML, Gemini API*

Dec'23

- Designed an AI-driven healthcare platform to predict organ-specific conditions (heart, kidney, thyroid, arthritis, liver) and diseases (e.g., diabetes), achieving over 90% accuracy with Random Forest and Decision Tree models.
- Integrated a Gemini API-powered chatbot, delivering 24/7 medical guidance and preventive care recommendations.
- Enhanced user experience by incorporating real-time doctor availability; this innovation resulted in a 25% reduction in missed appointments and improved overall user engagement with the health dashboard.

Achievements & Extracurricular Activities

- **GeeksforGeeks:** Solved over 400+ DSA problems (University Rank: 296) ([geeksforgeeks.org/avadheshkumlm8q](https://www.geeksforgeeks.org/avadheshkumlm8q))
- **Leetcode:** Solved 383 problems in C++ on Leetcode Platform (Global Rank : 251K) (leetcode.com/u/avadhesh04/)
- **STARS Scholarship:** Awarded a 100% Scholarship by VIT Bhopal University.
- **Scholarship for Higher Education (INSPIRE SHE):** Ranking in the top 1% of Class XII examinations.
- **Cloud Zone Club (VIT Bhopal):** Organized 5+ Hackathons and coding competitions in VIT Bhopal.

Certifications

- **Microsoft:** Microsoft Azure for Data Engineering
- **IBM:** Introduction to Data Analytics