Avadhesh Kumar Shah

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github.com/avadheshgithub

Education

VIT Bhopal University **Expected 05/2027**
Int. master of Technology in Computer Science and Engineering (GPA: 9.23 / 10.00) *Bhopal, Madhya Pradesh*

Govt. Excellence HS School Singrauli **05/2022**
Senior Secondary School Certificate (Class XII) - 92.6% *Singrauli, Madhya Pradesh*

Govt. Excellence HS School Singrauli **05/2020**
High School Certificate (Class X) - 96% *Singrauli, Madhya Pradesh*

Technical Skills

Programming Languages: C++, Python, R, JavaScript
Frameworks Libraries: HTML, Django, React.js, Node.js, Express.js, Tailwind CSS, NLP, Machine Learning
Tools Technologies: Vs Code, Git, Github, Postman, Notion, Figma
Cloud & Databases: GCP, AWS (S3, Athena, EC2), MongoDB, SQLite, MySQL Workbench, DBSqlite3
Relevant Coursework: Data Structure & Algorithms, 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 | Vellore Institute of Technology 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

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.

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.

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)
- **Leetcode:** Solved 383 problems in C++ on Leetcode Plateform (Global Rank : 251K) (leetcode.com/u/avadhesh$_0$4/)
- **STARS Scholarship:** Awarded a 100% fee waiver 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
- **University of Michigan:** Applied Machine Learning in Python
- **IBM:** Introduction to Data Analytics