

Aman Yadav

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EXPERIENCE

Software Intern | *HackerRank (Remote)*

March 2025 – May 2025

- Developed and optimized backend APIs in Python and Node.js, improving response time by **25%** for coding challenge submissions.
- Implemented automated test suites using PyTest and Jest, increasing code coverage to **90%+** and reducing production bugs.
- Collaborated on a real-time leaderboard system handling 50K+ concurrent users, ensuring **99.5% uptime** during high-traffic events.

PROJECTS

GesturEase | *Python, OpenCV, HCI, AI, Operating Systems*

Jul 2023 – Sep 2023

- Engineered an AI-powered gesture recognition interface that **increased accessibility by 40%** for senior citizens and Parkinson's patients, enabling hands-free navigation of digital platforms.
- Integrated real-time gesture detection with computer vision and ML algorithms, achieving **95% recognition accuracy** across varied environmental conditions.
- Advanced inclusivity in next-gen HCI and digital healthcare platforms by aligning with AI-Metaverse convergence trends.

Beatwell-AI | *Python, Scikit-learn, Keras, TensorFlow, Pandas, NumPy, Matplotlib*

Feb 2025 – Mar 2025

- Developed an AI-driven diagnostic model with multiple ML/DL techniques (Logistic Regression, SVM, Random Forest, XGBoost, ANN), reaching an **overall accuracy of 94%** in predicting heart disease risk.
- Enhanced early disease detection by **30% improvement in recall and F1-score** through rigorous preprocessing, feature engineering, and evaluation metrics (ROC, PR curves).
- Delivered a scalable and explainable healthcare solution with Keras and Scikit-learn, ensuring **clinically relevant insights** for 1,000+ active users.

TECHNICAL SKILLS

- **Languages:** Python, C/C++, JavaScript, TypeScript, Java
- **Frontend:** React, React Native, Next.js, Tailwind CSS, Bootstrap, HTML/CSS
- **Backend:** Node.js, Express.js, Django, Flask, FastAPI, .NET
- **Databases:** MongoDB, PostgreSQL, MySQL, SQLite
- **Tools/Cloud:** AWS, Docker, Kubernetes, Git, Bash, CI/CD, REST APIs, GraphQL
- **ML/AI:** TensorFlow, PyTorch, scikit-learn, OpenCV, pandas, NumPy

EDUCATION

VIT Bhopal University

Sehore, MP

B.Tech in Computer Science and Engineering

Sep 2022 – July 2026

- **Specialization:** Artificial Intelligence and Machine Learning; CGPA: 9.02/10

ACHIEVEMENTS

- Podium finish in the Inter VIT Hackathon (AdvITYa 24).
- Ranked in the top 150 teams out of more than 1000 participants in a national hackathon organized by GeeksforGeeks & Vultr.
- First Place in AARAMBH Basketball Championship 2023; Runner-up in Advitya Basketball Tournament 2024.