Ayush Pandey

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EDUCATION

VIT Bhopal University — Bhopal, Madhya Pradesh
B.Tech. in Computer Science and Engineering — CGPA: 8.76/10 — Oct 2022 – Present
· Relevant Coursework: Data Structures and Algorithms, Object-Oriented Programming, Operating System, Cloud Computing, Artificial Intelligence and Machine Learning, Computer Networks

Guru Tegh Bahadur Public School — Durgapur, West Bengal
12th Standard — Percentage: 89.2/100 — June 2020 – July 2021

Guru Tegh Bahadur Public School — Durgapur, West Bengal
10th Standard — Percentage: 86.4/100 — April 2018 – May 2019

WORK EXPERIENCE

Open Source Contributor – GirlScript Summer of Code (GSSoC) — May 2024 – Jul 2024
Open Source

- Contributed to open-source projects by resolving issues, improving documentation, and adding new features.
- Collaborated using Git and GitHub, enhancing skills in version control and community-driven development.

PROJECTS

E-Tracking: Personal Expense Tracker — Feb 2025 – Apr 2025
Full Stack Web Application — Vite.js, Tailwind CSS, Node.js, Express.js, MongoDB
· Designed and deployed a secure expense tracking platform with user authentication, profile management, and RESTful APIs tested via Postman, enabling seamless budget control for 30+ users.
· Implemented dynamic financial dashboards with interactive bar charts showing 7, 30, and 60-day insights; optimized data flow through modular controllers, middleware, and frontend integration.

Bone Fracture Detection System — May 2024 – June 2024
Deep Learning Project — Python, PyTorch, NumPy, OpenCV
· Achieved 94% accuracy on COCO dataset with a CNN-based fracture detection model, increasing diagnostic speed by 60% over manual inspection.
· Processed and analyzed 5,000+ labeled medical images to train and evaluate the deep learning pipeline.

IoT-based Hand Gesture Controller for AR/VR — Feb 2024 – May 2024
IoT Project — Arduino Mini, Flex Sensor, Integrated C Language
· Designed and developed a hand gesture recognition device that achieved 90% detection accuracy, significantly improving user experience by reducing latency in AR/VR interactions by 40%.
· Integrated flex sensors and Arduino Mini into a wearable device tested across 10+ gesture patterns in real time.

TECHNICAL SKILLS

- **Programming Languages:** Java, Python, C++
- **Full Stack:** HTML, CSS, Tailwind CSS, JavaScript, TypeScript, React.js, Node.js, Express.js, REST API Integration
- **Databases:** MySQL, MongoDB
- **Tools & Platforms:** Git, GitHub, Postman, MongoDB Atlas

EXTRA-CURRICULAR

- **Competitive Programming:** Solved over 150+ LeetCode problems, strengthening algorithmic thinking and data structure knowledge.
- **Languages:** Fluent in Hindi and English; basic knowledge of Bengali.
- **MongoDB Data Modeling Intro Certificate (Smartbridge):** Gained hands-on experience with MongoDB Atlas, including data modeling, querying, and backend integration using Node.js.
- **Postman API Fundamentals Student Expert Certificate:** Demonstrated proficiency in API testing and development using Postman.
- **Smart India Hackathon 2024:** Internal Round Finalist Certificate for AI-powered ISRO Satellite Frame Interpolation Project.