

# Ayush Pandey

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## 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.

## 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

## 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

- Developed and implemented a bone fracture detection system utilizing deep learning techniques.
- Trained a convolutional neural network (CNN) model on medical images, achieving 94% accuracy on the COCO dataset.

### IoT-based Hand Gesture Controller for AR/VR

Feb 2024 – May 2024

IoT Project

Arduino Mini, Flex Sensor, Integrated C Language

- Developed an IoT-based hand gesture controller using Arduino Mini and flex sensors.
- Improved user interaction in AR/VR environments by enabling intuitive gesture-based control.

## EDUCATION

### VIT Bhopal University

Bhopal, Madhya Pradesh

B.Tech. in Computer Science and Engineering – CGPA: 8.75/10

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

12<sup>th</sup> Standard – Percentage: 89.2/100

June 2020 – July 2021

### Guru Tegh Bahadur Public School

Durgapur, West Bengal

10<sup>th</sup> Standard – Percentage: 86.4/100

April 2018 – May 2019

## 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.
- LeetCode:** Solved over 200 LeetCode problems, strengthening algorithmic thinking and data structure knowledge.
- 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.