Aanjaneya Pandey

New Delhi, India

📞 8299376784 ✉ pandeyaanjaneya76@gmail.com in LinkedIn ◯ GitHub LeetCode 🌐 Portfolio

EDUCATION

National Institute of Technology Delhi, New Delhi — Graduating 2027
B.Tech in Electronics and Communication Engineering with Minor in AI & ML — *CGPA: **9.0/10***

Ewing Christian Public School, Prayagraj — Completed 2022
Senior Secondary — *Percentage: **91%***

EXPERIENCE

Embedded Systems & AI Research Intern | IIT (BHU), Varanasi — June 2025 – July 2025
Department of Computer Science and Engineering — ◯ GitHub
Research Internship in Secure IoT and Edge Intelligence using LoRa-based communication systems.

- Engineered a **secure IoT communication stack** (LoRaWAN on nRF54L15 & SX1261), improving **network efficiency by 30%**.
- Developed and optimized **low-level drivers in C (Zephyr RTOS)** and integrated with APIs, enhancing **system reliability by 20%**.
- Architected **secure OTAA-based authentication** and optimized transmission algorithms, extending **wireless range beyond 500m**.
- Applied principles of **software optimization and algorithmic efficiency** to embedded systems development, improving scalability and performance.
- Designed a novel data transmission protocol and devised validation setups across **macOS, Windows, and Linux**.

PROJECTS

EduTrack | MongoDB, Express.js, React.js, Node.js — ◯ GitHub
- Built a **scalable MERN platform** to manage student analytics, attendance, and performance insights.
- Implemented **role-based access control (RBAC)** and **secure REST APIs** with authentication.
- Deployed on **cloud servers** with **API-based routing** for seamless and reliable communication.

Smart Inventory Tracker | Python, Machine Learning, IoT & Sensor Networks — ◯ GitHub
- Programmed **predictive ML models** for inventory restocking, enhancing forecast accuracy by **15%**.
- Configured real-time event notifications via **MQTT** and validated inputs from **50+ IoT sensors**.
- Implemented **automated API tests** ensuring consistent data reliability and operational uptime.

SmartSched | MongoDB, Express.js, React.js, Node.js — ◯ GitHub
- Developed a **task automation system** for **100+ users**, optimizing productivity and workflow tracking.
- Enhanced UI/UX through **interactive dashboards** and efficient backend API integration.
- Designed and validated **30+ workflows**, ensuring reliability, maintainability, and smooth operations.

TECHNICAL SKILLS

Programming Languages: C, C++, Python, JavaScript
Web & Backend Technologies: React.js, Node.js, Express.js, MongoDB, RESTful APIs, Tailwind CSS
Tools & Platforms: Docker, Git/GitHub, Postman, VS Code, Zephyr RTOS, MATLAB, Numpy, Pandas, Matplotlib
Soft Skills: Collaboration, Leadership, Effective Communication, Time Management
Relevant Coursework: OOPS, Data Structures & Algorithms, Computer Networks, Operating Systems, DBMS

ACHIEVEMENTS & HIGHLIGHTS

- Solved **400+ DSA problems** on **LeetCode and GeeksforGeeks**, enhancing analytical and coding skills.
- Cleared two coding rounds of **Flipkart GRiD 7.0** and shortlisted as a **semifinalist**.
- Advanced through two rounds of the **Adobe Hackathon**, showcasing algorithmic and problem-solving ability.
- Secured a perfect **10.0 SGPA** in the first year of B.Tech, reflecting academic excellence and consistency.
- Achieved **98.6 percentile in JEE Mains** (Top **1.4%** of 1M+ candidates), demonstrating strong quantitative skills.

POSITION OF RESPONSIBILITY

Think India Club | NIT Delhi, Active Member
- Organized and led **5+ seminars and technical discussions**, engaging **50+ participants**.
- Collaborated with peers to conduct technical **workshops and events**, improving teamwork and hands-on learning.

Technical Club | NIT Delhi, Active Member
- Contributed to **technical projects and coding events**, fostering peer-to-peer learning and innovation.
- Assisted in organizing **hackathons and coding challenges**, enhancing algorithmic thinking among students.