

Naman Tiwari

3rd Year B.Tech, Electronics and Communication Engineering (ECE)

Birla Institute of Technology, Mesra

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EDUCATION

Birla Institute of Technology, Mesra B.Tech in Electronics and Communication Engineering; CGPA: 8.5
2023 – Present

DAV NIT, Jamshedpur
2022

Class XII (CBSE) – 90.8%

DAV NIT, Jamshedpur
2020

Class X (CBSE) – 95%

TECHNICAL SKILLS

- **Languages:** Python, C++, Java, JavaScript, CSS
- **Tools:** Git, GitHub, Jupyter Notebook
- **Libraries:** NumPy, Pandas, Matplotlib, Scikit-learn
- **Web Development:** Full Stack Web Development
- **Databases:** MySQL, PostgreSQL
- **Core:** Data Structures & Algorithms, Computer Networks, OOPS, OS, DBMS

PROJECTS

- **Portfolio Website** *HTML, CSS, GitHub Pages*
 - Designed and deployed a responsive personal portfolio website using **HTML & CSS**, showcasing 5+ academic and personal projects.
 - Implemented automated builds and custom domains on **GitHub Pages**, improving accessibility and reaching 200+ unique visitors in the first month.
- **Autonomous Human-Following Drone** *Raspberry Pi 4, IMX-500, Computer Vision*
 - Engineered a drone with **Raspberry Pi 4** and **Sony IMX-500** vision sensor for real-time tracking at 15 FPS.
 - Optimized onboard inference by reducing classification classes, boosting decision-making speed by **30%**.
 - Integrated **PID control algorithms**, enabling stable autonomous navigation with **95% positional accuracy**.

CERTIFICATIONS & TRAINING

- NPTEL – Education for Sustainable Development, scored **100%** (2025).
- NPTEL – Psychology of Learning – *Ongoing*.
- Arduino Workshop – Hands-on training in embedded systems and IoT applications.
- Drone Building Workshop – Practical UAV design and programming with autonomous navigation.

POSITIONS OF RESPONSIBILITY

ECE Society (Club of BIT Mesra)
Technical Lead

2024 – Present

Birla Institute of Technology, Mesra

- Spearheaded 3+ technical workshops on electronics, programming, and IoT for 50+ peers, increasing peer participation by **40%**.
- Organized technical quizzes and seminars with 100+ attendees, enhancing departmental engagement and collaborative learning.