

Bijay Kumar Yadav

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Education

Kalinga Institute of Industrial Technology (KIIT)
Bachelor's in Technology in Computer Science & Technology

Exp Graduation June 2027

Technical Skills

Programming: Python, Java, C

Web Development: HTML, CSS, JavaScript

Data & CI: Python (fresher), MySQL, NumPy, Pandas, Matplotlib

Tools & Technologies: Git, GitHub, Docker, Framer, Figma, Photoshop, Excel, Arduino UNO

Systems & Platforms: Linux, Ubuntu, Arduino, Git, AutoCAD

Soft Skills: Project Management, Team Collaboration, Critical Thinking, Public Speaking, Networking, Communication, Problem Solving, Analytical Thinking, Time Management

Projects

Implementation of Embedded System using Arduino & Micro-Controller

KIIT, Jan 2025 – Apr 2025 / Supervised by: Subhra Debdas

- Designed and implemented a web-based remote control system for housing electrical switches (bulb, fan, appliances) using Arduino UNO, integrated with Bluetooth 5.0 and Wi-Fi modules.
- Created a real-time weather forecasting system for the KIIT campus to measure temperature, humidity, and air quality index using Arduino, WebSockets, ESP8266/ESP32, and data transfer to ThingSpeak.
- Automated calibration processes (flats and switch control), improving efficiency by 60%.
- Developed robust C++ code for HTTP requests and WebSocket connections, resolving bandwidth incompatibilities and ensuring long-term stability.
- Conducted risk assessments and implemented failure management protocols to address potential hardware and software disruptions.