

Pushkar Jha

Computer Science Student | Embedded Systems & AI Projects

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[LINKEDIN](#)
[GITHUB](#)
[PORTFOLIO](#)

• EDUCATION

- B. Tech in Computer Science (Data Science) CGPA: 8.2 (Sem 1) (GGSIPU, 2025-2029)
- CBSE Class XII - 70% (JNV Delhi-II, 2025)
- CBSE Class X. - 86% (JNV Delhi-II, 2023)

• PROJECTS

VISION-AID: Assistive System for Visually Impaired ([GITHUB REPO](#)) (Feb 2026 - Apr 2026)

- Developed an ESP32-based assistive device enabling real-time object detection via a WiFi-connected backend
- Integrated YOLO-based detection API for low-latency inference and user feedback
- Designed end-to-end pipeline: ESP32 → HTTP requests → Python backend → inference → response delivery
- Reduced API response latency by ~30% through optimized request handling
- Led development of embedded-device to backend communication pipeline

SWEEPX: Gamified Waste Management Platform ([GITHUB REPO](#)) (Nov 2025 - Mar 2026)

- Built a mobile-first web platform that gamifies real-world cleanup through AI-validated missions
- Implemented image-based verification using before/after comparison to validate cleanups and prevent cheating
- Integrated Supabase backend for real-time data handling and user progress tracking
- Built the platform end-to-end, developing frontend, backend, and AI-based verification system

EQUIFLOW: Financial Tracking System ([GITHUB REPO](#)) (Feb 2026 - Apr 2026)

- Developed a financial tracking system for managing transactions and user inputs
- Implemented structured data handling and basic for expense tracking

• ACHIEVEMENTS

- **Winner** at GenCodeX Hackathon (**200+ Teams**) (Mar 2026)
- **Finalist** at Brainwave 2.0 Hackathon at Delhi Technological University (**800+ Teams**) (Jan 2026)
- **Finalist** at Innovision Ideathon (**150+ Teams**) (Feb 2026)

• TECHNICAL SKILLS

- **Languages:** C/C++ (Arduino), Python, Java
- **Embedded Systems:** ESP32/ESP8266, Arduino IDE, firmware flashing, WiFi (HTTP), UART
- **Web:** HTML, CSS, JavaScript
- **Backend & APIs:** REST APIs, API integration, HTTP requests/response handling
- **Tools:** Git
- **Core Concepts:** Data Structures & Algorithms (basic), OOP fundamentals

• CERTIFICATION

- **JP Morgan Chase:** Software Engineering Job Simulation (Nov 2025)
- **Deloitte:** Cyber Security Job Simulation (Dec 2025)