

# Aryan Panwar

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## Summary

Final-year ECE student with hands-on experience in embedded systems, industrial instrumentation, and IoT automation. Shipped two real-world products to live users — a production Android AI app and an open-source voice platform. Actively exploring Agentic AI, Large Language Models (LLMs), and edge AI as a bridge between hardware expertise and emerging technology.

## Education

**B.Tech — Electronics & Communication Engineering** | MIET Meerut  
**Senior Secondary (Class XII)** | Shardein School

Meerut, UP | 2022 – 2026  
Muzaffarnagar, UP | 2020 – 2022

## Experience

**Assistant, Instrumentation Dept. (Internship)** | Indian Potash Limited

Muzaffarnagar, UP | Jun – Aug 2025

- Calibrated RTD Pt100 sensors, pressure transmitters, and electromagnetic flowmeters using HART communicators and dead weight testers in live process control environments
- Conducted field testing and troubleshooting of industrial instrumentation; gained hands-on exposure to Safety Instrumented Systems (SIS) and Emergency Shutdown (ESD) protocols

## Projects

**FitWardrobe — Privacy-First AI Stylist App** | Founder & Product Lead | AI, Android, Local-First | [fitwardrobe.me](https://fitwardrobe.me) | 2026

- Conceived and launched a production Android app (v1.0.1) with on-device AI outfit suggestions and local-first privacy architecture — zero wardrobe data on servers; Google Play & App Store release coming soon
- Managing full product lifecycle: APK distribution, community growth (Telegram/Instagram), user feedback, and roadmap

**Mithivoices — Open-Source AI Voice Platform** | Creator & Maintainer | Python, FastAPI, React, Piper TTS, Whisper STT | [GitHub](https://github.com) | 2025–26

- Built and maintain an open-source TTS/STT platform with 19 neural voices across 8 languages; released v0.2.0 (Jan 2026) with multi-LLM support and modular architecture
- Directed CI/CD pipeline via GitHub Actions; managing active open-source community and contributions

**Wireless EV Charging System** | Arduino, Inductive Power Transfer (IPT), IoT | [GitHub](https://github.com) | 2025

- Developed Arduino firmware with automated vehicle detection achieving 95% positioning accuracy; designed resonant IPT circuit with 85% energy transfer efficiency and emergency shutdown

**Smart Staircase Lighting System** | Arduino, IR Sensors, IoT Automation | [GitHub](https://github.com) | 2023

- Designed motion-activated sequential LED control system achieving 45% energy reduction via intelligent IR detection and non-blocking millis() timing logic

Additional projects: [github.com/Aryanpanwar10005](https://github.com/Aryanpanwar10005)

## Technical Skills

<b>Programming</b>	Embedded C/C++, Python, Arduino (C/C++)
<b>Microcontrollers</b>	Arduino (ATmega328P), 8051 Microcontroller
<b>Protocols</b>	UART, I2C, HART Protocol (industrial)
<b>Hardware</b>	Sensor Integration, Circuit Design, Prototyping, PCB Design Basics
<b>AI/ML Tools</b>	Piper TTS, Whisper STT, LLM APIs, On-Device AI
<b>Industrial</b>	Process Instrumentation, Calibration (RTD/Pressure/Flow), SIS, HART
<b>Test Equipment</b>	Oscilloscopes, Multimeters, Function Generators, Logic Analyzers
<b>Dev Tools</b>	Arduino IDE, PlatformIO, LabVIEW, MATLAB

## Areas of Interest & Currently Exploring

**Agentic AI & LLMs** — agent frameworks, prompt engineering, LLM APIs | **Edge AI & IoT** — on-device ML, embedded AI | **Data Analysis** — Python data pipelines