ARYAN PANWAR

Gen AI Engineer | Embedded Systems | AI Product Manager

+91-7817060230 | aryanpanwar10005@gmail.com | linkedin.com/in/aryan-panwar1 | github.com/Aryanpanwar10005 | aryanpanwar.in

PROFESSIONAL SUMMARY

Final-year ECE student and Gen AI Engineer with experience across Embedded Systems, IoT firmware, and AI/ML application development. Shipped two production products — a privacy-first Android AI app and an open-source voice platform. Completed industrial internship in instrumentation engineering. Proficient in Python, Embedded C/C++, LLM APIs, REST APIs, and full product lifecycle management.

TECHNICAL SKILLS

Languages: Embedded C/C++, Python, Arduino (C/C++)

Microcontrollers: Arduino (ATmega328P), 8051, ARM Microcontroller

Protocols & Hardware: UART, I2C, HART Protocol, Sensor Integration, Circuit Design, Prototyping, PCB Design

AI/ML: Machine Learning, Deep Learning, Natural Language Processing (NLP), Transformer-Based NLP, Speech Recognition, LLM APIs, Model Fine-tuning, MLOps, LLMOps, Prompt Engineering, On-Device AI, Generative AI Development, Responsible AI, AI Productivity Tools, Human-in-the-loop

GenAI Tools: GitHub Copilot, Cursor, Windsurf, Replit, Lovable, Bolt.diy, Google AI Studio, ElevenLabs, HeyGen

Backend & Infra: FastAPI, Supabase, Firebase, REST API, CI/CD, Railway, GitHub Pages, Vercel, Git, GitHub, PostHog, N8n

Dev & Industrial: Arduino IDE, PlatformIO, LabVIEW, MATLAB | Instrumentation, Calibration (RTD/Pressure/Flow), SIS, HART

Other: Product Management, Product Strategy, Agile, SEO, Rapid Prototyping, Text-to-Speech (TTS), Logical Reasoning

CERTIFICATIONS

Google AI Essentials — Google / Coursera — Feb 2026
coursera.org/verify/specialization/NJYHIPVRXNW5

Intro to Transformer-Based Natural Language Processing — NVIDIA — Feb 2026
learn.nvidia.com/certificates?id=GClvxekBT0SWUVCvjdGB5A

EDUCATION

B.Tech — Electronics & Communication Engineering — July 2022 – June 2026
MIET Meerut, Uttar Pradesh | CGPA: 7.00 / 10

Senior Secondary (Class XII) — Science, CBSE — 2022
Shardein School, Muzaffarnagar | 62.00%

WORK EXPERIENCE

Instrumentation Engineering Intern — Indian Potash Limited, Muzaffarnagar, UP — June – August 2025

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

PROJECTS

FitWardrobe — Privacy-First AI Stylist App — Web-Page | GitHub — Jan 2026 – Present
Android, On-Device AI, Supabase, PostHog, Vercel, GenAI Tools

- Launched production Android app (v1.0.1) with local-first privacy architecture and on-device AI; managed full product lifecycle — APK distribution, community growth (SEO), PostHog analytics, and roadmap

Mithivoices — Open-Source AI Voice Platform — GitHub — Dec 2025 – Present
Python, FastAPI, React, Piper TTS, Whisper STT, GitHub Actions

- Built open-source TTS/STT platform with 19 neural voices across 8 languages; released v0.2.0 with multi-LLM support within 30 days; directed CI/CD pipeline via GitHub Actions and active contributor community

Wireless EV Charging System — GitHub — Sep – Nov 2025
Arduino, Embedded C, Inductive Power Transfer (IPT), IoT

- Developed Embedded C firmware achieving 95% vehicle positioning accuracy; engineered resonant IPT circuit with 85% energy transfer efficiency and emergency shutdown

Smart Staircase Lighting System — GitHub — Oct – Nov 2024
Arduino, Embedded C, IR Sensors, IoT Automation

- Designed motion-activated LED control system reducing energy consumption by 45% via intelligent IR detection and non-blocking millis() timing logic

More projects: github.com/Aryanpanwar10005 | Portfolio: aryanpanwar.in