

FASI OWAIZ AHMED

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SKILLS

Languages: Python, TypeScript, C++
AI / ML: Transformers, Multimodal Models, LLM Architecture, RAG, LangGraph, LangChain, PyTorch, MLflow, DVC, OpenAI Embeddings
Frontend: Next.js, React, CodeMirror, WebContainers, Tailwind CSS
Backend: Node.js, REST APIs, Inngest, Prisma, BetterAuth, OAuth, Vapi, Firecrawl
Databases: PostgreSQL, Firestore, ChromaDB
Cloud & DevOps: Docker, Airflow, Sentry, Convex, Clerk

EDUCATION

B.E., Artificial Intelligence & Machine Learning
BMS College of Engineering, Bengaluru · CGPA: 9.075 / 10.0

Expected 2027

EXPERIENCE

- AI/ML Intern** | BOCK Health *Aug 2025 – Nov 2025*
- Built 4 multimodal AI models (V2V, V2I, V2T, V2A) using Transformers and custom attention architectures, trained on 150+ videos across 3 modality pipelines and exported as inference-ready checkpoints.
 - Designed cross-modal alignment architecture spanning video, image, text, and audio; packaged with a Kaggle inference demo for an upcoming investor presentation.
- Data Analyst Intern** | JK Tyres *Jan 2024 – Apr 2024*
- Applied statistical process control across 6+ production stages, reducing dimensional deviation by 20% and improving yield consistency across 1,000+ daily units.
- Intern** | SS Technology *Jul 2023*
- Used computer vision checks to verify PCB component placement and solder alignment across 200+ boards, contributing to a ~15% reduction in assembly errors for the quarter.

PROJECTS

- Workflow Automation SaaS** *Next.js · Inngest · PostgreSQL · BetterAuth · Polar · TypeScript*
- Architected a Zapier/n8n-style automation platform with 10+ third-party integrations, multi-step async pipelines, OAuth authentication, and usage-based billing via Polar.
 - Implemented durable job orchestration via Inngest with automatic retries and deterministic execution, reducing workflow failure rate by ~40% and supporting 50+ concurrent pipeline runs.
- Polaris - Agentic AI Code Editor** *Next.js · Inngest · CodeMirror · Convex · WebContainers · Sentry*
- Built a cloud IDE with in-browser sandboxed execution (WebContainers), AI-driven refactoring, and Firecrawl-powered live documentation ingestion across 5+ context sources.
 - Designed agentic multi-step analysis workflows via Inngest supporting 3+ parallel code evaluation tasks; integrated Sentry for runtime observability across 8+ tracked error surfaces.
- Vertex - Terminal AI Coding Agent** *Node.js · Claude API · TypeScript · Terminal*
- Built a Claude Code-inspired terminal agent that accepts natural language instructions and autonomously generates, executes, and iterates on code across multi-step tasks using 6+ tool-call types.
 - Implemented a self-correcting execution loop with file I/O, shell command dispatch, and output-driven feedback — resolving 80%+ of single-task coding objectives without human intervention.
- Poorplexity - AI Search Engine** *Next.js · LangChain · RAG · TypeScript*
- Developed a Perplexity-style AI search engine combining real-time web retrieval across 5+ sources with LLM-synthesized answers grounded in cited references, reducing factual hallucination.
- LLM from Scratch** *Python · PyTorch*
- Implemented a transformer-based LLM from scratch in PyTorch — covering tokenization, positional encoding, multi-head self-attention, feed-forward layers, and autoregressive next-token training.

Achievements

- Cisco Forecast League - 2nd Runner-Up
- Technical Head, Gradient Club
- 700+ LeetCode Problems Solved