

Gopal Goyal

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EDUCATION

- National Institute of Technology** Hamirpur, India
Bachelor of Technology in Computer Science and Engineering; CGPA: 8.34 July 2019 – June 2023

EXPERIENCE

- Gemini Solutions Pvt. Ltd. (Full Time)** July 2023 – Present
AI/ML Engineer
 - Transformed basketball training by creating a real-time analytics system that acted as a virtual coach, delivering instant feedback and improving players' on-court performance.
 - Streamlined document processing workflows and reduced manual review by 80% while maintaining 98% entity extraction accuracy, leveraging OCR, AWS Step Functions, and LLMs.
 - Developed a generative AI text-to-video system that revolutionized internal training creation and delivered daily news summaries to clients in under 3 minutes, transforming how content is produced and consumed.
 - Collaborated with AI research and engineering teams to deploy advanced **machine learning** and **LLM-based solutions** into production. Maintained a strong balance between accuracy, latency, and scalability while staying at the forefront of evolving technologies in applied AI and generative models.
- Wpplugins Pvt. Ltd. (Internship)** June 2022 – July 2022
App Development Intern
 - Developed a cross-platform mobile app in Flutter and Dart to compute U.S. federal, state, and local taxes, ensuring accuracy by integrating IRS guidelines and streamlining tax liability estimation for users.
 - Delivered a fully functional MVP within 40 days, optimized for performance and UX on iOS and Android, collaborating with backend teams for API integration and managing code via Git.

PROJECTS

- Portfolio Website for GFC**
Objective
 - Designed and implemented a fully responsive site for Goyal Fertilizers & Commodities (GFC), enhancing digital presence and building trust with clients across devices.
 - Optimized performance and user experience through clean UI/UX design, cross-device compatibility, and deployment via GitHub Pages, driving measurable visitor engagement.
- Zennix – Intelligent CLI Tool for Project Scaffolding**
Objective
 - Created a Python-based CLI tool that intelligently scaffolds development projects using **LLMs**, helping engineers bootstrap new codebases by auto-generating boilerplate files like README, test suites, architecture docs, and more.
 - Engineered the tool using **Python 3.11+** and **Typer CLI**, incorporating components such as **AST parsing**, file system abstraction, and prompt engineering techniques, while integrating with **OpenAI/Groq APIs** for natural language understanding.

SKILLS

- Software Engineering:** REST APIs, DSA, Asynchronous Programming, Microservices
- Programming Languages:** C++, Python
- ML AI:** LangGraph, RAG, Context Engineering, Finetuning, LLM, NLP, Computer Vision
- Backend & Frameworks:** Flask, FastAPI
- Databases:** SQL, Vector Stores, DynamoDB, Redis
- Cloud & DevOps:** AWS (Lambda, S3, EC2, Step Functions), Jenkins, Docker