

Parampreet Singh

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Summary

AI / ML Engineer focused on building and shipping end-to-end AI systems, from fine-tuning SLMs to deploying production-ready applications on cloud and edge. Experienced in multi-agent workflows, real-time inference systems, and scalable backends. I care about turning models into usable products, not just training them.

Experience

- **Founder | Gurmat Darbar - gurmatdarbar.com** Sept 2025 - Present
 - Gained over **500+ users in the 1st month of Launch**, eventually lead to **150+ samagams (events) globally** with **200+ contributions**.
 - Lead & Built Biggest Full-Stack platform for Sikh community events with **Find Samagams Near Me** feature.
 - Designed a GenAI pipeline to extract Structured Multilingual Data (EN/HI/PA) & auto event poster generation.
 - Backend deployed on **GCP Cloud Run** using FastAPI, Redis caching, PostgreSQL and GCP buckets.
- **AI Research Intern | mPragati Lab, IIT Delhi** Sept 2025 - Feb 2025
 - Worked on **3D skull implant generation** using deep learning for biomedical reconstruction.
 - Created & trained a pipeline **3D U-Net based architectures** for skull implant reconstruction.
- **Junior Applications Engineer | Coridors (Remote)** Aug 2024 - Sep 2025
 - Built Streamlit-based data ingestion platform with **30+ interactive screens** integrated with Snowflake.
 - Worked on backend integrations with Snowflake Snowpark for scalable data workflows.
 - Designed, deployed, and maintained the company website using JavaScript + Tailwind CSS, managing multi-branch deployments via Vercel & Cloudflare workers.
- **Educator | YouTube - [@Param3021](https://www.youtube.com/@Param302)** Jan 2023 - Present
 - Delivered **70+ live sessions** on Python and ML, reaching **175K+ learners**.

Education

- **IIT Madras, BS in Data Science and Applications** GPA: 8.3 | Sept 2022 - Present
 - **Core Subjects:** LLMs, Maths for Gen AI, Software Engineering
 - **Completed Diplomas:** Diploma in Programming; Diploma in Data Science
 - **NPTEL Electives:** Intro to Quantum Computing, Applied Accelerated AI

Projects

- **Pocket Coder | Local Coding Assistant** [Github](#)

Tools: PyTorch, LoRA, SFT, Unsloth, Ollama, MCP, GGUF

 - Fine-tuned **1.2B Liquid Foundation Model (LFM 2.5)** using LoRA on custom datasets for coding specific tasks.
 - Engineered SFT pipeline to scale context length from **4K to 16K** (local + Kaggle multi-GPU).
 - Created an **MCP server** & integrated the model (Ollama) with Jupyter notebook magic command (%%code).
- **GRWM | Get README With Me** [Live link](#)

Tools: LangGraph, FastAPI, Next.js, GCP Cloud Run, SSE

 - Achieved **100+ unique users in first 16 hours** and 200+ within 24 hours.
 - Built multi-agent GenAI system with three specialized agents (Detective, CTO, Ghostwriter).
 - Implemented **agent orchestration with LangGraph**, real-time SSE, and personalized README generation.
 - Deployed backend on GCP Cloud Run with rate limiting and rolling API key management.
- **Hand Gesture Segmentation with LNN** [Github](#)

Tools: PyTorch, Liquid Neural Networks, Time-Series Modeling

 - Explored Liquid Neural Networks (continuous-time recurrent models using LTC dynamics for temporal adaptability).
 - Reproduced LTC architecture and implemented hand gesture segmentation on 32-dimensional time-series motion data.
 - Built custom LTC cells and benchmarked against LSTM, achieving 54.6% validation accuracy with improved generalization stability.
- **Quizzo Quiz Management System** [Github](#)

Tools: Flask, Vue.js, Redis, Celery, PostgreSQL

 - Engineered scalable full-stack quiz platform with background task queues and API rate limiting.
 - Implemented certificate generation and automated email workflows.

Skills

- **Languages:** Python, JavaScript, Java, C, SQL, Bash, HTML/CSS
- **ML / GenAI:** PyTorch, TensorFlow, LangGraph, LangChain, U-Net, Transformers, VertexAI
- **Systems & Infra:** Snowflake, FastAPI, Redis, PostgreSQL, GCP, Firebase, Cloud Run, Docker, Git

Co-Curricular & Achievements

- **Presented research paper at GLEX 2025:** Real-Time DEM for Autonomous Space Exploration.
- Delivered Python One-Liners Talk - [YT Link](#).
- ML Specialization Notes (120+ stars).
- **Best #23** Contributor in Winter of Code 2023 by IIIT Kalyani.
- Gold Badge in Python on HackerRank.
- **Top 3** in High School Code Connect coding competition.