Krishnansh Goswami

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Experience

Software Engineer Intern, Samsung Research Institute, Bangalore (SRIB) Jan 2026 – Jul 2026

- Deployed end-to-end inference pipelines for 4+ Generative AI models on sub-48GB VRAM systems via REST APIs, Docker, and Kubernetes.
- Cut Docker image build time by ∼80% using reusable base images and dependency layering.
- Connected pipeline outputs to a frontend layer, enabling real-time interaction with deployed models.

Summer Intern, Samsung Research Institute, Bangalore (SRIB) Jun 2025 – Jul 2025

- Reduced memory usage by 40% in a scalable inference framework while preserving output fidelity.
- Fixed key architectural bottlenecks, raising pipeline throughput by 25% and contributed to two Samsung PRISM GenAI research projects.

Projects

AI Video Assistant | *Python, LangChain, Streamlit, Whisper, Mistral AI, ChromaDB* Jul 2026

- Built an AI meeting assistant that turns YouTube videos and audio into transcripts, summaries, and action items using Whisper and Mistral AI.
- Added a RAG pipeline with Hugging Face embeddings and ChromaDB for context-aware conversational Q&A over meeting content.
- Automated audio preprocessing and semantic search behind an interactive Streamlit dashboard.

Neonatal Wireless Vitals & Deterioration Monitor | *ESP32, MAX30102, MCP9808, Python, MySQL* Dec 2025

- Built an ESP32 wearable streaming heart rate, SpO2, temperature, and motion data over MQTT to a monitoring system.
- Wrote a Python/MySQL backend to ingest live MQTT streams and expose REST APIs for real-time monitoring dashboards.

Ancient Document Denoising | *PyTorch, Cycle-GAN, SE Attention, Streamlit* Nov 2025

- Trained a CycleGAN with SE-enhanced ResNet generators to restore noisy ancient document scans.
- Improved FID from ∼198 to ∼63 (KID ≈0.036) on ∼1.2K patches; shipped a Streamlit app for batch inference.

Skills

Languages: C/C++, Python
Backend: FastAPI, REST APIs
Databases: MySQL, MongoDB, ChromaDB
Developer Tools: Docker, Kubernetes, Git, GitHub, GitHub Actions, VS Code, Linux
Messaging: Kafka, MQTT
Machine Learning: Transformers, Diffusion Models, Generative AI, LLMs, LangChain, RAG, PyTorch
Course Work: ML, NLP, OOPS, OS, CN, DBMS
Data Structures and Algorithms (DSA)
Soft Skills: Communication, Leadership, Teamwork

Education

Thapar Institute of Engineering and Technology **Patiala**
Bachelor of Engineering in Computer Engineering, CGPA: 9.29 *Sep 2022 – Jun 2026*

Omkarananda Saraswati Nilayam **Rishikesh**
Class XII: 97.75% | Class X: 95.30%

Achievements & Certifications

- Won the **Team Awesome Award** at SRIB for outstanding team contribution, Q1 2026.
- Reached the **National Semifinals** of **Flipkart GRiD 7.0** among 3.2+ lakh participants.
- Selected from **10,000+ applicants** for the SRIB Summer Internship under the **PRISM** initiative.
- Selected as 1 of **500 participants** from **50,000+ applicants** for **Code for Good (CFG) 2024**, Bangalore.
- Received a **100% Tuition Fee Waiver** in 2nd and 3rd year for academic performance in 1st and 2nd year.