Goutham Dechineni

MSc Computer Science @ RPTU Kaiserslautern · seeking AI working-student role (up to 20 h/week)

Kaiserslautern, Germany · raogoutham374@gmail.com · LinkedIn · GitHub · goutham-dechineni.vercel.app

EXPERIENCE

Founder & sole engineer, Tellability

Aug 2025 – present

- Designed and built the product solo: an AI hiring platform live at tellability.com with 20 early users. Job seekers build a profile in a chat with an LLM agent; recruiters get candidates ranked by vector search, a structured score and a budgeted LLM review.
- Gemini context caching: in a small early sample, 87.5% of prompt tokens were served from cache, for roughly 76% lower LLM spend (excluding cache storage fees).
- Spend guards (daily counter, per-user limits, tier quotas) and CI against real Postgres and Redis containers.

Freelance AI Engineer

Jun 2024 – May 2025

- Built AI systems end to end for clients: data pipeline, models, training and app (computer vision, graph ML, LLM explanations).
- For simpler projects, guided clients through setup, running and extending them.

SELECTED PROJECTS

codebase-mcp: Open-source MCP server giving a chat LLM local semantic code search, persistent memory and a git-backed edit pipeline. Apache-2.0, 50 GitHub stars.

OGphotos: Offline desktop app that finds duplicate and similar photos with SHA-256, perceptual hashes, image embeddings and face clustering. v0.2.0 installers for Windows, macOS and Linux.

Drug–Drug Interaction (client work): Prescription photo to drug interaction: OCR, molecular graphs and a shared GATv2 encoder predicting interaction and mechanism. AUC 0.910, F1 0.832.

Heart Risk (client work): Retinal model (U-Net vessel features plus EfficientNetB3) fused with a clinical model into one risk level, explained by Gemini.

Image Denoiser (client work): ResNet-18 identifies the noise type and routes the image to a RIDNet trained for it. PSNR 28–35 dB, SSIM 0.72–0.92.

CCTV Surveillance (client work): Live-camera event detection with YOLOv8n, MediaPipe pose rules and a 3D-CNN, turned by a rules engine into emailed alerts.

EDUCATION

MSc Computer Science, RPTU Kaiserslautern (ongoing) — Oct 2026 – present

B.Sc. Computer Science, Fergusson College, Pune. CGPA 8.90. — 2021–2024

SKILLS

LLM apps & agents	Gemini, MCP, Tool calling, Context caching, Pydantic structured output
Retrieval	pgvector, HNSW, OpenAI embeddings, MiniLM, EmbeddingGemma
Computer vision	U-Net, ResNet, EfficientNet, YOLOv8, MediaPipe, InsightFace, EasyOCR
Graph & classical ML	GATv2, RDKit, XGBoost, scikit-learn, RandomForest
Backend & infra	Python, TypeScript, FastAPI, Next.js, PostgreSQL, Redis, Cloud Run, Vercel, GitHub Actions, Alembic

LANGUAGES

English, Hindi, Telugu, German (A1, learning)

ACHIEVEMENTS

100x Builders Gen AI Challenge, Top 20 (XLENS autonomous X agent) — Nov–Dec 2024

All-India Gen AI Hackathon, semifinalist — Nov–Dec 2024