DHEEPAK SHAKTHI N S

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github.com/dheepakshakthi | linkedin.com/in/dheepakshakthi | leetcode.com/u/NitroQ

PROFILE

B.Tech Computer Science Engineering student specializing in AI and Data Analytics with hands-on experience in Machine Learning, data engineering pipelines and full-stack application development. Looking forward to working on enterprise-scale solutions and contributing to complex data engineering challenges.

SKILLS

Programming Languages: Python, C, C++, Java, C#, JavaScript (Node.js, React.js), SQL
AI & ML: PyTorch, Tensorflow & Tensorboard, Ollama, Huggingface, Scikit-learn, OpenCV, Pandas
App Development & Frameworks: Android Studio, Flutter, Figma, Flask, Django, DotNet, Express, React, REST APIs
Database Systems: MySQL Workbench, Supabase (BaaS) and MongoDB Atlas
DevOps, Software & Systems: Docker, Git, CI/CD, Tableau, Power BI, Vim, Unix, Linux
Other Software skills: Game Development (Unity), Blender, Multimedia Editing (Adobe premiere pro, Audacity, Affinity)

EDUCATION

SRI RAMACHANDRA INSTITUTE OF HIGHER EDUCATION AND RESEARCH
FACULTY OF ENGINEERING AND TECHNOLOGY — Chennai, Tamil Nadu
Bachelor of Technology in Computer Science and Engineering (Artificial Intelligence and Data Analytics). — 2023 - 2027

KENDRIYA VIDYALAYA CLRI — Chennai, Tamil Nadu
High School, Opted Computer Science group. — 2021 - 2023

EXPERIENCE

HTIC, IIT-MADRAS RESEARCH PARK — Chennai, Tamil Nadu
AI Research Intern — May 2025 - June 2025
I worked in the field of medical imaging for detection and classification of abnormalities and anatomical landmarks in real-time endoscopic video inference on edge devices. Developed Knowledge distillation pipeline, optimized deep learning models, benchmarked all models, and documented their performance.

INEM TECHNOLOGIES — Remote
AI Intern — December 2025 - January 2026
Implemented Database and designed pipeline for implementing AI features in an AI assisted Ed-Tech web application platform developed using Django.

PROJECTS

DEVO: AI DEVOPS AGENT — May - June 2025
- DevO is an AI Agent which focuses on assisting your development processing and deploying them in GitHub and Docker.
- Link: https://github.com/dheepakshakthi/DevO

BIOPSY AND ABNORMALITY REPORTING SYSTEM IN ENDOSCOPY — June - July 2025
- Reporting biopsy instruments, anatomical location and polyps during colonoscopy for automatic reporting. Decreases error rates when logging reports.
- Link: https://github.com/dheepakshakthi/Biopsy_and_Abnormality_reporting_system_in_Endoscopy

OTHER PROJECTS
- **Custom_LLM (200M Param):** https://github.com/dheepakshakthi/Custom_LLM
- **Rewear:** https://github.com/dheepakshakthi/ReWear
- **VRamEstimation**: https://github.com/dheepakshakthi/vRam_estimation_for_diffusion_model

ACHEIVEMENTS AND PARTICIPATION

- 2nd Prize at AI Summit Hackathon conducted by SRM Katangulathur. Awarded ₹7500 cash prize for innovative AI project (Hercules-GPT) presented as a team.
- Presented the paper "Penile Curvature Quantification in Hypospadias Surgery using Deep Learning and Circle-Fit Optimization" in IEEE CICT 2025 held at IIITDM Kancheepuram.
- Participation in TechExpo (2023, 2024, 2025) organized by Sri Ramachandra Faculty of Engineering and Technology.
- Participated in Hackfinity 24Hrs Agentic AI Hackathon conducted by SIMATS Engineering.

LANGUAGES

- TAMIL
- ENGLISH
- HINDI