

# N S DHEEPAK SHAKTHI

## CONTACT

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## TECHNICAL SKILLS

### Programming languages:

Python, C, C++, Java, C#, JavaScript (Node.js), SQL, Kotlin, Dart.

### Packages and Frameworks:

- AI development with PyTorch and Tensorflow.
- Mobile App development with Android Studio and Cross-platform app development with Flutter.
- Worked with packages and frameworks such as Pandas, Scikit-learn, OpenCV, Flask and DotNet.

### Tools and Software:

- Experienced with IDE's such as Visual Studio, Android Studio and JetBrains.
- Knowledge in DBMS using MySQL Workbench, Supabase (BaaS) Database (PostgreSQL) and MongoDB.
- Worked with Docker, Git and CI/CD.

### Other Technical Skills:

- Game development with Unity
- Multimedia Editing

## LANGUAGES

- Tamil
- English
- Hindi

## PROFILE

Currently pursuing B.Tech in Computer Science with specialization in Artificial Intelligence and Data Analytics. Passionate about developing innovative solutions for real-world problems and improving my technical skills.

## EDUCATION

### College

Sri Ramachandra Institute of Higher Education and Research | Faculty of Engineering and Technology :B.Tech in Computer Science and Engineering (Artificial Intelligence and Data Analytics). 2023 - 2027

### High School

Kendriya Vidyalaya CLRI: Opted Computer Science group. 2022 - 2023

## EXPERIENCE

HTIC, IIT-M Research Park MAY 2025 – JUN 2025  
AI Research Intern

Worked in the field of medical imaging for detection and classification of abnormalities and anatomical landmarks in real-time endoscopic video inference. Developed Knowledge distillation pipeline, Optimized deep learning models for inference in edge devices, benchmarked all models and documented their performance.

## FEATURED PROJECTS

DevO : AI DevOps Agent MAY - JUNE 2025

DevO is an AI Agent which focuses on assisting your development processing and deploying them using Github and Docker. This application was developed as a team and was presented in Hackfinty 24-Hrs Agentic AI Hackathon. Link : <https://github.com/dheepakshakthi/DevO>

Biopsy and abnormality reporting system in Endoscopy JULY 2025

This program detects biopsy instruments to check whether the biopsy is conducted or not during endoscopic procedure. It also detects and reports abnormalities in the tract during endoscopy. Link: [https://github.com/dheepakshakthi/Biopsy\\_and\\_Abnormality\\_reporting\\_system\\_in\\_Endoscopy](https://github.com/dheepakshakthi/Biopsy_and_Abnormality_reporting_system_in_Endoscopy)

### Other projects:

Custom\_LLM (200M Param) : [https://github.com/dheepakshakthi/Custom\\_LLM](https://github.com/dheepakshakthi/Custom_LLM)

Rewear : <https://github.com/dheepakshakthi/ReWear>

SmartCityHub : [https://github.com/dheepakshakthi/smart\\_city\\_communication\\_hub](https://github.com/dheepakshakthi/smart_city_communication_hub)

VRamEstimation: [https://github.com/dheepakshakthi/vRam\\_estimation\\_for\\_diffusion\\_model](https://github.com/dheepakshakthi/vRam_estimation_for_diffusion_model)

## ACHEIVEMENTS AND PARTICIPATION

- 2<sup>nd</sup> Prize at AI Summit Hackathon conducted by SRM Katangulathur. Awarded ₹7500 cash prize for innovative AI project (Hercules-GPT) presented as a team.
- Participation in TechExpo organized by Sri Ramachandra Faculty of Engineering and Technology.
- Participated in Hackfinty 24Hrs Agentic AI Hackathon conducted by SIMATS Engineering.
- Participated in 24-Hrs Hackathon conducted by the school of electronics engineering at VIT-Vellore.