Kabilesh C

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Education

SRM Institute of Science and Technology *June 2024 – May 2028*

- B.Tech Computer Science Engineering with AI-ML (CGPA: **9.12/10**)

Skills

Programming Languages: *Python, Java, C/C++, JavaScript, TypeScript, SQL*

Frameworks & Backend: *React.js, Next.js, Node.js, Express.js, Flask, REST APIs, API Design, Unit Testing*

Data, ML & Cloud Systems: *PostgreSQL, MongoDB, Computer Vision Systems, ML Inference Pipelines, AWS, Docker*

Core CS: *Data Structures and Algorithms, Object Oriented Programming, Database Management, Operating Systems*

Experience

ML Systems Engineer Intern, *FOZZIL, Chennai* *Sep 2025 – Present*

- Built a real time multilingual (Tamil, English) conversational AI for voice based Q&A video centric visual responses.
- Engineered and deployed end to end ML inference and backend pipelines using FastAPI, optimizing model serving and media generation workflows to reduce response latency by ~70%.
- Developed an admin portal and landing interface to manage 100+ video and document assets, automate content ingestion and model updates, and improve operational efficiency by ~60%.

Research Intern, *IIIT Nagpur, Remote* *Nov 2025 – Jan 2026*

- Designed an explainability driven hyperspectral band selection pipeline using Integrated Gradients to rank spectral bands and reduce redundant dimensions while maintaining classification accuracy.
- Implemented redundancy aware selection and multi seed evaluation across benchmark datasets (Indian Pines, Pavia University, Salinas) to validate robustness and stability of selected bands.
- Benchmarked against PCA and classical band selection baselines, reporting accuracy and efficiency metrics.

Other Experience: ML Research Intern at Center of Excellence (Agentic Twins), **Research Intern** at UROP

Projects

JanRakshak: AI Powered Flood Early Warning & Disaster Management System,

- Built an AI based flood prediction and alerting system achieving 92% accuracy for early risk detection in flood regions.
- Implemented real time evacuation routing and shelter allocation during floods with low latency path computation.
- Developed driven an AI post flood damage assessment model achieving 86% accuracy on infrastructure imagery.

LokSetu: Scalable Government Grievance Platform,

- Developed a secure, scalable digital grievance redressal system enabling real time complaint submission and tracking across multiple user roles.
- Automated grievance classification and department routing using NLP, reducing processing time by 45%.
- Built district level heatmaps and analytics dashboards to track grievance trends and resolution timelines.

Other Projects: SignSync - ISL Sign Language Interpreter **, BioNaut -** NASA Bioscience Intelligence Platform

Achievements

- ***1st Position*** – NASA Space Apps Challenge 2025 (Chennai Nodal Center) — NASA
- ***1st Position*** – Agentic AI Hackathon — Center of Excellence, SRM
- ***1st Position*** – Hacktrix'25 Hackathon — Techvantage.ai
- ***1st Position*** – TechShark Hackathon — Saveetha Engineering College
- ***2nd Position*** – SRCAS Hackathon, Innovatex'25, Entrepreneurship 101 — SRCAS College, ACM SIGAI, E-Cell
- ***3rd Position*** – Ideathon 2.0, Beyond Hack'25 — Cintel, Directorate of Student Affairs
- ***Special Winner Award*** – VISION 2047 — FlairX Networks

Certifications

NPTEL - Programming in Java
CISCO - Networking Basics
Cognitive Class (IBM) - Python for Data Science
AWS Academy - Machine Learning Foundation
MATLAB - Deep Learning OnRamp
Great Learning - Full Stack Development