

# NAVEEN S

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## OBJECTIVE

A motivated individual passionate about Software Engineering, AI, and ML, with strong leadership, problem-solving, and teamwork skills. I excel in both independent and collaborative roles, delivering innovative and impactful solutions.

## EDUCATION

Kalasalingam Academy of Research and Education Expected 2026  
B.Tech/CSE-AIML, 9.61 CGPA

Chinmaya Vidyalaya (CBSE), Nagapattinam 2016 - 2022  
12th, 89.4% | 10th, 83.2%

## SKILLS

• C++ • Python • Java • SQL • Leadership • Machine Learning • Deep Learning • TI TDA4VM • Cross Compilation  
• TI Model Finetuning • TI Model Compilation • GCP • Git and Github • PyTorch • ROS2

## EXPERIENCE

MulticoreWare.Inc, Research Student Aug 2023 - Present

- In order to develop an ADAS system, conducted 2D data collection and annotations for model training, fine-tuned YOLO\_M\_TI\_Lite and YOLOv5\_TI\_Lite models, performed model compilation using EdgeAI Benchmark and TIDL tools, and deployed artifacts on the TDA4VM platform.
- Designed and developed 3 novel Collision Avoidance System (CAS) algorithms, deploying them on TDA4VM and x86 architectures.
- Researched and implemented various SLAM (Simultaneous Localization and Mapping) techniques. Successfully deployed ORB-SLAM3 on x86 and TDA4VM via cross-compilation.

Infosys, Springboard Internship 5.0 Oct 2024 – Dec 2024

- Worked on developing a breast cancer detection using ML algorithms, performed indepth dataset analysis (EDA), preprocessing, finetuning hyper parameters, grid search choosing the best model, developed a streamlite app.

Google Developer Group on Campus KARE, Machine Learning Lead May 2024 - Present

- Organized Generative AI Study Jams, conducted workshops with GDEs, trained students in ML foundations, and contributed to chapter projects and events.

## ACADEMIC & PERSONAL PROJECTS

Developed “TOX-MAS”, a project for a toxic-free community with a web app that analyzes and censors explicit content in videos, audio, images, and text, and a Chrome extension that blurs explicit visuals, contributing by training and fine-tuning BERT, RoBERTa, and NudeNet models and designing the web tool's user interface ([GitHub](#))

Developed a “Navigation System for Visually Challenged Individuals” consisting of a smart shoe and smart glass, both designed to trigger distinct sounds and vibrations based on directional inputs using microcontrollers and sensors. Contributed to designing circuit connections and programming the microcontrollers. ([GitHub](#))

Developed a “Smart door lock system” using face recognition with ESP32-CAM and FaceNet. The system analyzes faces via a local server and unlocks or locks based on the model's response. Contributed to fine-tuning the FaceNet model, developing the local server, and designing circuit connections. ([GitHub](#))

## ACHIEVEMENTS

- Published a design patent titled “[Navigation System for Visually Challenged](#)” under the Intellectual Property of India, Government of India.
- Published a research paper on “[Improving Security with Smart Door Lock Using ESP32](#)” in IEEE Xplore.
- Winner in the “[AI Genius Forge](#)” Hackathon.
- Selected as one of the teams for the Regional Bootcamp of the “[Google Solution Challenge 2024](#)”.
- Secured 4th position in “[PEC HACKS 2.0](#)” a National Level Hackathon organized by Panimalar College of Engineering.
- Winner in the “[Wonder Query](#)” event at the National Level Tech Symposium at Paavai Engineering College.