Sameer Krishn Sistla

A versatile developer blending AI/ML, data science, full-stack engineering, and 3D web experiences to build smart, interactive, and future-ready applications. With hands-on expertise across deep learning, embedded systems, and modern web technologies.

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WORK EXPERIENCE

Centre for Development of Telematics (C-DOT)

Project Intern — June 2025 - Present

- Created and implemented a hybrid communication system.
- Integrated the 5G RAN stack with high-speed optical signaling.
- Routed digital I/Q signals into a LiFi transmission system.
- Enabled optical wireless communication via modulated light sources.

EDUCATION

Amrita School of Engneering

Bachelors of Technology in Electronics and Computer Engineering - 7.00 — September 2022 - Present

- Played a key role in organizing placement preparation activities for students at Amrita Vishwa Vidyapeetham as a member of the Placement Preparation Committee (PPC) since February 2023.
- Served as the Vice President of Dhwani - The Literary Club at Amrita Vishwa Vidyapeetham, driving literary events and fostering a community of book lovers since August 2024.

PROJECTS

Pothole Detection and Smart Navigation System — February 2025 - May 2025

- Enhanced road safety through the implementation of a pothole detection system leveraging advanced deep learning techniques.
- Integrated pothole detection with dynamic route optimization, resulting in reduced travel times and enhanced driver experience.
- Deployed a comprehensive pothole detection and rerouting system, yielding significant improvements in road safety and efficiency.

Diabetes-Prediction-Model — August 2024 - Present

- Developed and trained a Machine Learning model utilizing datasets from various patients based on VSN values to identify prominent gene-markers associated with diabetes, enabling early prediction and intervention.
- Enhanced the Diabetes Prediction Model by integrating advanced machine learning algorithms, resulting in a 95% accuracy rate for early diabetes detection using a diverse set of genomic and clinical datasets.

Gaming Tournament Registration System — September 2024 - November 2024

- This project involved creating a comprehensive website dedicated to the gaming event, GG, which showcases the diverse range of tournaments and activities that will be held at the event.
- The project aimed to effectively communicate the event's schedule, rules, and requirements to participants and spectators, ensuring a smooth and enjoyable experience for all involved.
- By developing this website, I demonstrated my ability to design and implement a user-friendly platform that meets the needs of a diverse audience and effectively promotes the event's various activities.

SKILLS

- Machine learning, data science, FPGA design, digital electronics, and wireless communication are my fields of interest.
- My programming languages include Python, C/C++, Java, and Verilog.
- I am proficient in applications such as MATLAB, AutoCAD, Model Sim, CARLA, FIGMA, Xilinx, and Proteus.
- I possess soft skills in leadership, public speaking, problem solving, and analytical thinking.