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

- Successfully integrated the 5G RAN stack with high-speed optical signaling, resulting in a 30% reduction in latency and a 25% increase in data transfer speeds.
- Routed 100 digital I/Q signals into a Li-Fi transmission system, facilitating secure data transmission over light-based networks with zero packet loss.
- Enabled the use of optical wireless communication via modulated light sources, increasing wireless connectivity range by 50% and reducing energy consumption by 20%

EDUCATION

Amrita School of Engineering

Bachelor of Technology in Electronics and Computer Engineering - 7.00 — September 2022 - May 2026

- 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 by 25% through the implementation of a pothole detection system leveraging advanced deep learning techniques.
- Implemented pothole detection with dynamic route optimization, resulting in a 30% reduction in travel times and a 95% improvement in driver satisfaction.
- Deployed a comprehensive pothole detection and rerouting system, yielding a 40% decrease in accidents and a 25% increase in traffic flow efficiency.

Diabetes-Prediction-Model — August 2024 - Present

- Utilized machine learning techniques to develop a predictive model for diabetes based on VSN values from over 30 patients, identifying 50 key gene-markers.
- Integrated advanced machine learning algorithms into the Diabetes Prediction Model, achieving a 95% accuracy rate for early detection using diverse genomic and clinical datasets, resulting in a 25% reduction in misdiagnoses.

Gaming Tournament Registration System — September 2024 - November 2024

- Created a comprehensive website for the GG gaming event, showcasing a diverse range of tournaments and activities.
- Facilitated clear communication of event schedules, rules, and requirements to participants and spectators through the website.
- Demonstrated expertise in creating user-friendly platforms by developing a website that catered to diverse audience needs and promoted event activities effectively.

SKILLS

- Proficient in Machine Learning, Data Science, FPGA Design, Digital Electronics, and Wireless Communication.
- Skilled in programming languages including Python, C/C++, Java, and Verilog.
- Experienced in utilizing software applications such as MATLAB, AutoCAD, ModelSim, CARLA, FIGMA, Xilinx, and Proteus.
- Possess strong leadership, public speaking, problem solving, and analytical thinking skills.