

# Sameer Krishn Sistla

✉ krishnsameer54@gmail.com ☎ +91 7019582106 📱 in/sameer-krishn

## SUMMARY

Dynamic and detail-oriented engineer with expertise in programming languages such as Python, C/C++, along with a strong foundation in Machine Learning. Proficient in industry-standard applications including Model Sim, CARLA, FIGMA, Xilinx, and Proteus. Adept at problem-solving and analytical thinking, with strong leadership, public speaking, and group discussion skills. Passionate about leveraging technical knowledge to drive innovative solutions in AI/ML, embedded systems, and hardware design.

## PROJECTS

### Diabetes Prediction Model | October 2024 - December 2024

- Trained a Machine Learning model based on datasets from various patients based on VSN values to identify the prominent gene-markers leading to diabetes and gives an early prediction to the patient.
- Integrated advanced machine learning algorithms into the Diabetes Prediction Model, achieving an 95% accuracy rate in early diabetes detection using a diverse set of genomic and clinical datasets.

### Optimizing Automated Vehicle Path Planning on Adverse Weather Conditions | February 2025 - Present

- Created a Machine Learning model to detect the potholes on roads or any other distractions on the path of the vehicle and adjust the speed of automated vehicle.
- Enabled V2X communication to communicate to other nearby vehicles/ network devices to give an early alert to avoid emergency braking.
- Engineered a robust path planning algorithm for automated vehicles, successfully navigating adverse weather conditions with a 40% reduction in detours and enhanced vehicular safety through predictive modeling.

### Smart Energy Monitor | February 2025 - Present

- Developed smart energy monitoring system utilizing Raspberry Pi, interfacing with voltage and current sensors for real-time power usage optimization in appliances.
- An UI application created to let the user to set priorities for the appliances based on the weather or any other conditions.
- Engineered a smart energy monitor system that reduced energy consumption by 25%, leveraging IoT technology and real-time data analysis to enhance user insights and energy management.

## EDUCATION

### Bachelor of Technology in Electronics and Computer Engineering | Amrita Vishwa Vidyapeetham | 2026 | CGPA - 7

10+2 | Narayana Olympiad | 2015 - 2022 | CBSE Percentage - 88.2%

## CAMPUS INVOLVEMENT

Organizer | Amrita Vishwa Vidyapeetham | Placement Preparation Committee (PPC) | February 2025 - Present

Vice President | Amrita Vishwa Vidyapeetham | Dhvani - The Literary Club | August 2024 - Present

Student PoC | Amrita Vishwa Vidyapeetham | PLACECOM | February 2025 - Present

## SKILLS

Programming Languages: Python, C/C++, Java | Verilog | Machine Learning

Applications: MATLAB, AutoCAD, Model Sim, CARLA, FIGMA, Xilinx, Proteus

Soft Skills: Leadership, Public Speaking, Problem Solving, Analytical Thinking

## CERTIFICATIONS

Machine Learning A-Z | Udemy | 2024

Web Development Bootcamp | Udemy | 2024

Internship on FPGA using VHDL | PantechAI Academy | 2025