

# MALLI SIRIVENNELA



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## Education

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**Bachelor's in Technology (CCE)**, CGPA: 7.41  
Amrita Vishwa Vidyapeetham

Aug 2023 – May 2027

## Skills

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**Programming Languages:** Python, C, HTML5, JavaScript, SQL

**Tools:** VS Code, GitHub

**Databases:** MySQL

**Soft Skills:** Teamwork, Presentation, Leadership, Problem-Solving, Communication

## Projects

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**Web Application Performance Optimization,**

Feb 2025 – Mar 2025

HTML5 SQL API, HTML5, JavaScript

- Developed a prototype web application leveraging HTML5 client-side SQL API for local data storage and optimized query execution to reduce server load and latency.
- Implemented strategies for offloading server tasks to the client, improving scalability and efficiency.
- Conducted performance analysis comparing client-side and server-side data management, ensuring data synchronization and consistency in multi-user scenarios.

**Artificial Neural Network Modeling of CMOS**

Jan 2025 – Mar 2025

**Differential LNA**, Python, Jupyter

- Developed an ANN model using Bayesian Regularization to predict CMOS Differential LNA performance, achieving 29.5 dB gain, 1.2 dB noise figure, and 0.2 dBm IIP3 at 5 GHz with 19.3 mW power consumption.
- Applied current-reuse, capacitor cross-coupling, and body biasing techniques to optimize gain, linearity, and energy efficiency.

## Certifications

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**Basics of AI and ML**, IIT Roorkee

Dec 2024

- Participated in a workshop on the fundamentals of Artificial Intelligence and Machine Learning, covering major topic as Linear Regression and practical applications.

## Courses

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**AI/ML for Geodata Analysis,**

Aug 2024

Indian Institute of Remote Sensing, ISRO

- Completed an online course on applying Artificial Intelligence and Machine Learning techniques for geodata analysis, covering key methods and tools for data processing and spatial analysis.

## Organisations

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**One Independent Leader,**

Nov 2024

Change should come from within

Initiated Awareness Sessions for School Students.