HARI NARAYAN C S

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LinkedIn GitHub Portfolio

Govt. Model Engineering College, Kochi

EDUCATION

COURSES	INSTITUTION	BOARD	AGGREGATE	YEAR
B. Tech Electronics and Communication	Govt. Model Engineering College, Kochi	KTU	8.0	2025
Class XII	Carmel Higher Secondary School, Chalakudy	Kerala State	99.5%	2021
Class X	Carmel Higher Secondary School, Chalakudy	Kerala State	100%	2019

SKILLS AND INTERESTS

- **Technical Skills:** C++,Python, Verilog, LT Spice, Vivado, Proteus
- **Areas of Interest:** Data Analysis, AI/ML, Circuit Designing, Data Structures and Algorithms, Content Writing, Embedded Systems
- **Operating Systems:** Linux, Ubuntu, Windows
- **Soft Skills:** Problem solving skills, Communication skills, Teamwork, Leadership Qualities, Time Management Skills

PROFESSIONAL EXPERIENCE

- **Company:** ThinkPalm Technologies Pvt. Ltd.
  Role: Intern **Duration:** 1 Month
  Technology(s) Used: Python, Machine Learning, Kaggle
  Acquired hands-on experience with **Machine Learning** and built a **python model** with the goal of recognizing basic American Sign Language (ASL)

PROJECTS

- **Project:** Non-Invasive Blood Glucometer
  Role: Embedded system Engineer **Duration:** 2 months
  Technology(s) Used: Arduino IDE, Arduino Pro Micro, Photo Diode, LCD display, Machine Learning **Team Size:** 4
  Developed a **Non-Invasive Blood Glucometer** using **Near-Infrared (NIR) spectroscopy** that measures glucose levels by analysing the absorption of near- infrared light by glucose molecules in the blood, providing a real-time and non-invasive method for glucose monitoring with the help of an app to display the blood glucose concentration using Firebase, ESP32s, IR LED, Photodiode, Machine Learning, FLUX AI and Fusion 360.
- **Project:** Hydroscreen
  Role: Embedded system engineer **Duration:** 2 months
  Technology(s) Used: Arduino UNO, ESP8266, Water parameter sensors **Team Size:** 4
  Contributed significantly to the development of **Water Purity Monitoring system** by using **embedded systems**.
- **Project:** Exploratory Data Analysis on NHANES Dataset
  Role: Data Analyst **Duration:** 1 months
  Technology(s) Used: Python, Pandas, Matplotlib, Seaborn **Team Size:** 1
  Conducted exploratory data analysis on the NHANES dataset to uncover trends in health and nutrition. Used Python libraries such as Pandas for data manipulation and Matplotlib/Seaborn for data visualization. Performed statistical analysis to identify correlations and patterns among various health indicators. Key contributions included data cleaning, visualization, and reporting insights to inform potential health interventions.
- **Project:** ME-ViT: Memory Efficient Vision Transformer
  Role: ML and VLSI Engineer **Duration:** Ongoing
  Technology(s) Used: PyTorch, Vivado HLS, PYNQ Z2, Vision Transformer **Team Size:** 4
  Currently involved in the creation of a ME-ViT, a Single-Load Memory-Efficient FPGA Accelerator for Vision Transformers using FPGA, PYNQ-Z2, Vivado HLS and PyTorch for the efficient deployment of Vision Transformers on resource-constrained devices.

COURSES AND CERTIFICATIONS

- Completed a course on **Joy of Computing** certified by **NPTEL** in association with **IIT Madras**.
- Received a certificate for **Crash course on Python** offered by **Cousera** in association with **Google**.

POSITIONS OF RESPONSIBILITY

- **Content Head, IEEE MEC SB 2024** of Govt. Model Engineering College

ACTIVITIES AND ACHIEVEMENTS

- Member of **core organizing team** of **MAGIC3.0 2023**, annual summit of **IEEE MEC SB** of Govt. Model Engineering College.
- Volunteer of **INFLUX 4.0 2023**, an online mock placement drive conducted by **IEEE MEC SB** of Govt. Model Engineering College.
- Attended the **Verilog Workshop**, a workshop on **Verilog** organized by **IEEE Signal Processing Society MEC SB** of Govt. Model Engineering College.
- Volunteer for **UDAAN 2023**, an Engineering Education and Professional Development session for pre-university students organized by **IEEE Educational Society Kerala Chapter**.
- Attended the **TinyML Workshop by MakerGram Learnings and SeeedStudio**, a workshop on **TinyML for hands-on projects** organized by **Cognicor-AICTE Idealab**, a general technical club.
- Took part in the **Open-Source Chip Design Workshop**, a workshop on **IC design** conducted by **Digital University Kerala** and **IEEE Circuits and Systems Society**.
- Participated in **IndiaFOSS 2.0 2022**, the 2nd edition of Free and Open Source Software conference organised by **FOSS United Community,** a global network of individuals and organisations dedicated to promoting and supporting the use of Free and Open Source Software.

- Attended the **MATLAB for Modern Engineers by MathWorks**, a workshop on **MATLAB** conducted as part of **i5 2022,** a National Technical Convention organized by IEEE Kerala Section.

REFERENCES

- Prof. Dr. Mini M G, Principal, Govt. Model Engineering College, Kochi. Email ID: **principal@mec.ac.in**
- Prof. Pradeep M, HOD, Electronics and Communication Engineering, Govt. Model Engineering College, Kochi. Email ID: **hodec@mec.ac.in**