VISHNU C
B.Tech - ECE with specialization in Data Science
Department of Electronics and Communication Engineering
SRM Institute of Science and Technology, Vadapalani Campus

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EDUCATION

B.Tech - ECE with Specialization in Data Science – SRM Institute of Science and Technology, CGPA – 8.91 *(2022 - 2026)*
HSC – Thiruthangal Nadar Vidyalaya, Percentage – 80% *(May 2022)*
SSLC – SRDKVV Vivekananda Vidyalaya, Percentage – 90% *(May 2020)*

SCHOLASTIC ACHIEVEMENTS

Secured 9.35 SGPA in Fifth semester examinations
Subject topper in 10th by securing 96/100 in Tamil. *(May 2020)*
Succesfully completed my Masters Diploma in System Administration (MDSA) *(June 2019)*

CO-CURRICULAR AND EXTRA-CURRICULAR ACHIEVEMENTS

1. Appointed as Director of Fund for the IEEE Student Chapter at SRMIST Vadapalani Campus
2. Attended National Level Yuvamanthan Hackathon.
3. Attended VLSI Chip design Workshop conducted by Edveon Technologies.
4. Participated in AI NEXUS Workshop
5. Conducted Generative AI event behalf of College symposium
6. Led and coordinated IEEE student activities, technical events, and workshops.
7. Volunteered in One Man One Tree Trust NGO by planting trees and plants.
8. Proficient in playing Flute and Saxophone with 4 yrs in contemporary music.
9. Led and Coordinated a IEEE workshop on Linux(Basic) and how to use it.
10. Conducted Generative AI event behalf of College symposium

PROJECTS

1- AI CALCULATOR (INCEPTION PROJECT)
Currently working on an AI-powered calculator project that integrates machine learning for advanced computations and natural language processing for intuitive user interactions. The backend is built using FastAPI, with Pydantic for data validation and Uvicorn as the ASGI server for high-performance processing. The frontend is developed using HTML, CSS, and JavaScript, enabling a responsive and interactive user experience. The entire application is containerized using Docker for seamless deployment and scalability, ensuring a consistent environment across different platforms.

2- COMPARATIVE ANALYSIS OF DIVISION ALGORITHM EXECUTION TIME ON CPU AND GPU USING INTEL ONEAPI IN JUPYTER NOTEBOOK
Skills Used: Jupyter Notebook, Intel OneAPI, Github. *(October 2024)*
Conducted performance benchmarking of division algorithms by comparing execution times on CPU and GPU.
Utilized Intel OneAPI for parallel computing and optimization to enhance computational efficiency.
Implemented and analyzed different division algorithms using Jupyter Notebook to visualize performance metrics.
Focused on improving processing efficiency by leveraging GPU acceleration over traditional CPU execution.
Presented findings at ICREACT 2024 and received a certificate for research presentation.

3- IEEE CONFERENCE WEBSITE *(January 2025)*
Skills Used: HTML, CSS, JavaScript, Github, YAML.
Designed and developed a responsive website for the upcoming IEEE International Conference conducted by SRMIST, ensuring a seamless user experience across devices. Utilized HTML, CSS, and JavaScript for front-end development, creating an intuitive and visually appealing interface. Managed version control using GitHub for efficient collaboration and updates. Configured essential settings with YAML for deployment and automation, optimizing website performance and scalability.
Link: ICNGEI 25

4- ICREACT WEBSITE *(December 2024)*
Skills Used: HTML, CSS, JavaScript, Github, YAML.
Developed a responsive and dynamic website for the upcoming ICREACT International Conference organized by SRMIST, ensuring an optimized user experience across all devices. Leveraged HTML, CSS, and JavaScript to build an engaging and interactive interface. Utilized GitHub for version control and seamless collaboration throughout the development process. Implemented YAML configurations to streamline deployment and enhance website functionality.
Link: ICREACT 24

RESEARCH / CONFERENCES

1- INTERNATIONAL CONFERENCE ON INNOVATION AND RECENT TRENDS IN APPLIED MATHEMATICS (ICIRTAM) *(February 2025)*

Presented a research paper on Al-Powered Calculators for Enhanced Computational Efficiency at the International Conference on Innovation and Recent Trends in Applied Mathematics (ICIRTAM). The paper explores the integration of machine learning and natural language processing (NLP) to develop intelligent calculators capable of advanced computations and contextual understanding. It discusses the implementation of FastAPI, Pydantic, and Uvicorn for efficient backend processing, along with a responsive frontend using HTML, CSS, and JavaScript. The research also highlights the role of Docker for deployment and scalability, providing insights into optimization techniques for Al-driven mathematical problem-solving. The paper is soon to be published in a Scopus-indexed journal, contributing to advancements in Al-powered automation for computational tools.

2- INTERNATIONAL CONFERENCE ON SUSTAINABLE COMMUNICATION NETWORKS AND APPLICATION (ICSCNA) *(December 2024)*

This project explores the performance of complex multiplication in signal processing across CPU, GPU, and FPGA using Intel OneAPI. It involves implementing and optimizing multiplication algorithms, benchmarking execution times, and analyzing computational efficiency across different hardware architectures. By leveraging parallel computing and hardware acceleration, the study aims to identify the most efficient computational platform for signal processing applications. The findings contribute to optimizing high-performance computing workflows, ensuring efficient resource utilization for real-time and large-scale signal processing tasks.

ONLINE COURSES

1- AlgoUniversity – Graph Theory Bootcamp

Completed the Graph Theory Bootcamp on Algo University, covering a-z of Graph basics including shortest path, Dijkstra, BFS + Implementation, Interview patterns.

2-UiPath – Automation Explorer for Students

Completed the UiPath Automation Explorer for Students program, gaining hands-on experience in Robotic Process Automation (RPA), workflow automation, and AI-driven process optimization.

3- Great Learning – ChatGPT for Digital Marketing

Completed the ChatGPT for Digital Marketing course by Great Learning, exploring AI-powered content generation, customer engagement, and automation strategies for digital marketing.

4- Hackerank – SQL Intermediate

Completed the SQL Intermediate course by HackerRank, gaining proficiency in complex queries, joins, aggregations, and advanced SQL functions for efficient database management.

SKILLS

Programming Languages: Python, JavaScript, C.
Web Development: HTML, CSS, JavaScript.
Framework: Bootstrap, Flexbox.
Database: MySQL.
Version Control: Git (GitHub/GitLab).
Operating Systems: Linux (Shell scripting), Windows.
Developer Tools: Visual Studio Code, Co-Pilot, Jupyter Notebook, GitHub, GitLab, Docker,Pycharm, Bash Terminal.
Virtualization Tools: Oracle VirtualBox, Power Bi, mobaXterm.

INTERNSHIP

1- Front-end Developer Intern at ParkQwik Pvt Ltd *(August 2024 – November 2024)*

Worked on UI development for the ParkQwik app using HTML, CSS, JavaScript, and Node.js, designing the login page, home page, and user interface to enhance user experience.

LANGUAGES KNOWN

English - Professional Proficiency
Tamil - Native Proficiency
Hindi - Intermediate Proficiency
Malayalam - Native Proficiency