SAI ADARSH CHATLAPALLY

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SUMMARY

Innovative and results-oriented AI enthusiast passionate about generative AI, I thrive at the intersection of data, technology, and creativity. Experienced in developing deep learning models, optimizing embedded kernels, and building scalable applications using Python and C++. Committed to continuous learning, I enjoy collaborating with multidisciplinary teams to deliver generative AI projects that exceed expectations and advance the field.

EDUCATION

SRM Institute of Science and Technology — Chennai, IN
Bachelor of Technology — Expected Jul 2025
Computer Science and Engineering, Artificial Intelligence and Machine Learning
Cumulative GPA: 8.16/10
Relevant Coursework: Data Structures and Algorithms, Object Oriented Programming, Database Management, Advanced Calculus, Discrete Mathematics, Artificial Neural Networks, Natural Language Processing

Sri Chaitanya Junior College — Hyderabad, IN
MPC (Percentage: 92.4%) — 2020 – 2021

Johnson Grammar School — Hyderabad, IN
Indian Certificate of Secondary Education (Percentage: 85%) — 2018 - 2019

WORK EXPERIENCE

Kinara AI(NXP) — Hyderabad, IN
Kernel Developer Intern (6 months) — Nov 2024 – May 2025

- Worked extensively with kernels such as convolution, shift, element-wise kernels, and SoftMax for the Ara-2 processor
- Developed kernels for models with quantized input values (from float32 to int8)
- Identified and added checkers for an instruction bug, integrating the solution into the Jenkins pipeline
- Restructured the kernel library to optimize pull request execution time, reducing it from 3 hours to 10-20 minutes
- Gained hands-on experience with Gitea, Linux systems, and shell commands.

All India Council for Technical Education — Remote
Intern — May 2023 – Jul 2023

- Built a strong foundation in core AI and ML concepts, with a focus on understanding model architectures relevant to GenAI, such as transformers and encoder-decoder structures.
- Completed hands-on mini projects to simulate real-world use cases, including model training, evaluation, and basic automation preparing for more complex GenAI applications.

Research Centre Imarat, DRDO — Hyderabad, IN
Intern — Jun 2023 – Jul 2023

- Developed a client-server application using TCP/IP socket programming in Python to enable communication
- over a network.
- Implemented multi-client chatting server to allow multiple clients to connect and exchange messages
- Optimized network performance by controlling socket options like reuse address/port, send/receive buffers

PROJECTS

Enhanced School Zone Safety: Vehicle Speed Estimation and Geofence Based Control

- Developed a real-time vehicle speed estimation system using YOLO and Deep SORT, enhancing school zone safety through intelligent geofencing. Implemented geofence-based speed control to automatically detect and manage vehicle behavior in school zones, improving pedestrian safety.

Heart Disease Prediction

- A comprehensive prediction analysis system that evaluates the likelihood of heart disease based on user input parameters. This project utilizes advanced machine learning algorithms to analyze various health parameters and predict the likelihood of heart disease.

Bike Demand Prediction

- An analysis based on a Kaggle dataset for predicting the demand of the bike rentals on various dates, days, time of the year and other factors using multiple linear regression.

CERTIFICATIONS

Supervised Machine Learning: Regression and Classification (DeepLearning.ai)

AWS Academy Cloud Foundation (Amazon Web Services)

AWS Academy Machine Learning Foundations (Amazon Web Services)

Network Essentials (CISCO)

SKILLS

Programming Languages: Python, C, C++
Tools, Database: Tableau, Power BI, HTML, CSS, SQL, CMake, Jenkins
Deep Learning: PyTorch, CUDA