SAI SHARAN KARANAM

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Driven CS student with a passion for AI. Seeks to leverage strong coding and data analysis skills to develop impactful solutions in healthcare accessibility and climate change post-graduation. A fast learner, constantly seeking new knowledge to fuel innovation in AI for a more sustainable and empowered future.

Education

Kalasalingam Academy of Research and Education, TN   Anticipated Graduation: May 2025
Bachelor of Science: Computer Science and Engineering

- Grade Point Average: 8.4

Technical Skills

- C
- Python
- Java
- R
- Machine Learning
- Deep Learning
- IoT
- UI/UX
- Sensor Technology

Collegiate Coursework

- Machine Learning and AI
- Data Structures and Algorithms
- Database Management Systems
- Operating Systems

Projects

- **Text2Handwriting**
  I built a cool program called "Text2Handwriting." It's like a magic trick with code! You type in some text, and the program uses Python to work its magic, turning it into something that looks like real handwriting. I helped with the behind-the-scenes stuff using Python, then built the user interface with HTML, and finally styled it all up with CSS to make it look polished.
- **Stock price prediction -Time series analysis**
  This project "Stock Price Prediction - Time Series Analysis" mainly analyses the trend of any required stock and can able to predict the future of this stock using Deep Learning. This acts like a financial fortune teller, analyzing historical stock data to forecast future prices.
- Implemented **unsupervised** and **supervised** learning models using historical data. Which are available on GitHub
  This is done to develop my knowledge in the Field of Machine Learning, in which I've created a GitHub Repository which contains a list of Machine learning models which can be used for classification and predictions.
- **Disease Diagnoser**
  This project Mainly focused on Giving better access to HealthCare using AI through Image Analysis
  It is a project which is an ensemble of 7 models which are in it, which are able to diagnose 7 different diseases like Alzheimer's, Brain tumor, Covid-19. Each model had an Accuracy above 98% so that it can be a revolution in the field of HealthCare.Thorugh the help of image data we can able to predict.
- **Trading-Bot**

  It is a bot which is wholly used in Financials where it helps a user to Access the real-time data of the stock and estimates using its previous data and helps to open and close a trade based on the equity of the share it is asked for and also it predicts the best-selling price to make us more profitable.

- **Exo skeleton hand**

  Built an Exoskeleton hand using RaspberryPi and Flex sensors which can be used to predict Hand signatures and can able to help Mute students to communicate. Hand gestures can be programmed to assist Bharatanatyam enthusiasts by providing subtle corrections when their mudras are inaccurate.

Honors and Achievements

- **Top 10 in Algorthimist-24** (University Level KARE): Ranked among the top in a data structures and algorithms competition.
- **Top 5 in CODE RUSH'24** (National Level, IBM):
  Led a team that achieved a top-5 ranking in a national hackathon. Developed an AI-powered healthcare tool for early disease detection using scanned brain and lung images'-worked with a cross-functional team to develop a top-5 national hackathon solution utilizing AI for early disease detection, improving patient outcomes through faster diagnosis
- **Winner**: Hackadthon Conducted by IITDM Kanchipuram.
- Qualified for Second Round in **EY-Techathon** and **Accenture Innovation Challenge'23**.
- IEEE Professional Member (2024-2025), IEEE RAS Society Professional Member.

Positions of Responsibilities

Taiwan Culture Club, Assistant Treasurer   Apr 2022 - Present
- Manage cash flow by monitoring balances and forecasting needs.
- Assist in preparing and analyzing financial reports.
- Ensured adherence to regulations and internal policies.

PIE &AI, Tech lead   Aug 2023-Jan 2024
- Spearheaded a project to re-engineer and consolidate end-to-end service processes across 10 departments, resulting in a one third reduction in paperwork and streamlining operations
- Mentor junior team members, fostering their skill development
- Restructured communication flow and reduced paperwork by half, improving overall efficiency.

IEEE RAS KARE, Head- Robotics   April 2024 - Present
- Leading a team of passionate engineers to explore the cutting edge of robotics