

KABILASH S

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PROFILE

A passionate Computer Science undergraduate specializing in **AI and Data Analytics**, skilled in **machine learning, programming, and modern frameworks**. Experienced in **AI projects and research**, and an active **open-source contributor to Epic Games' Unreal Engine**, focusing on **core development and optimization**.

EDUCATION

- **Sri Ramachandra Faculty of Engineering and Technology (SRET) - SRIHER** Chennai, India
B.Tech CSE (Specialization in Artificial Intelligence and Data Analytics) 2023 - Present

TECHNICAL SKILLS

- **Programming:** Python, Java, C++, JavaScript, C, Dart, Shell Scripting
- **AI/ML Frameworks:** TensorFlow, PyTorch, OpenCV, Scikit-learn, Pandas, NumPy, Librosa, YOLO, Hugging Face Transformers
- **AI Expertise:** Computer Vision, NLP, Text/Image Generation, Reinforcement Learning, Quantum Neural Networks (QNN), Object Detection, LLM, RAG, Agentic AI
- **Web/Mobile:** FastAPI, Flask, Flutter
- **Databases:** MySQL, MongoDB, PostgreSQL
- **Tools & Software:** Git, MS Excel, Tableau, Blender, Figma, Unreal Engine, FL Studio
- **Hardware/IoT:** Raspberry Pi, ESP32, Arduino

EXPERIENCE AND INTERNSHIP

- **OneYes Info Tech Solutions** Remote
Web Development Intern Sept 2025 - Oct 2025
 - **Unified Assessment Website:** Developed a unified assessment website using Node.js, Express.js, MongoDB, JavaScript (ES6+), RESTful APIs, Tailwind CSS, and Git.

FEATURED PROJECTS

- **Medibot: Personalized Healthcare Chatbot using LLaMA2:** Developed an AI-driven healthcare chatbot using LLaMA2 with GPU acceleration, featuring NLP, secure data handling, and dynamic user responses, built on Flask for scalability and security, with a focus on future capabilities like **EHR integration, voice recognition, and telemedicine expansion**. (May 2024 - July 2024)
- **Traffic Light Signal Optimization With Reinforcement Learning and QNN:** Built a DRL-based traffic signal optimization system using Q-Learning and QNN, integrated with SUMO to **minimize vehicle waiting times and enhance urban traffic flow**, leveraging Python, TensorFlow, and the Traci API. (January 2025 - March 2025)
- **Re-CANS - Realtime Crash Analysis & Notification System:** Developed a real-time crash detection system using Computer Vision, **providing automated alerts to emergency services and storing video evidence**. Features a Tkinter GUI for live and recorded video, scalable for smart city applications. (Dec 2024 - March 2025)
- **RHINO - RealTime Hazard Identification and Notification Optimization:** Developed a YOLOv8-based vehicle safety system with LSTM/ANN for **velocity and collision risk prediction**. Integrated ESP32 sensor data and video analytics for hybrid headway estimation, using TTC risk scoring with dynamic thresholds for early collision warnings. **Features real-time SMS/Email alerts and annotated video stream visualization**. (May 2025 - July 2025)

ACHIEVEMENTS AND PARTICIPATION

- Active contributor to Epic Games' **Unreal Engine** as part of the Epic Games organization, focusing on core development and optimization
- **Won Top Performer** award in the **AI/ML Theme at the 24-Hour Hackathon**, organized by the Department of Embedded Technology, VIT Vellore
- Presented research paper "**Medibot: Personalized Healthcare Chatbot using LLaMA2**" at the **7th ICCCT 2025**
- **2nd Prize winner at Research Day 2025** conducted by Sri Ramachandra Faculty of Engineering and Technology (presented as team)
- Participated in Hackfinity 24Hrs Agentic AI Hackathon conducted by SIMATS Engineering
- Participated in AI Summit Hackathon conducted by SRM Kattankulathur