# Saragada Thrinath

**LinkedIn:** linkedin.com/in/saragadathrinath **Email:** saragadathrinath@gmail.com
**Github:** github.com/Thrinath008 **Mobile:** +91 6305015647

## SKILLS

- **Languages**: Python, C++, Java, JavaScript, C, typescript, R (basics).
- **Libraires:** Pandas, numpy, matplotlib, TensorFlow, PyTorch.
- **Frameworks**: HTML5 and CSS, NextJS, NodeJS, React.
- **Tools/Platforms**: MySQL, Github, VSCode, Firebase, Supabase, jupyter notebook.
- **Soft Skills**: Problem-Solving, Team Player, Adaptability.

## INTERNSHIP

- **Sri Teja constructions | Live** Jul' 2025
  **Freelancer:**
  - **Role**: Built a full-scale company website for a civil and piling contractor. Developed all sections including services, projects, equipment, team, and contact workflows.
  - Implemented WhatsApp auto-messaging and mobile-optimized UI. Integrated Firebase Hosting handled deployment
  - **Tech**: React, TypeScript, Vite, TailwindCSS, Firebase Hosting.
- **Trackdemic | Live** Jul' 2025
  **Freelancer:**
  - **Role**: Engineered a full academic-management dashboard enabling students to track attendance, subjects, exams, assignments, and timetables in real time.
  - Migrated the entire system from local storage to a Firestore-first architecture with live syncing, auto-updates, per-user secure data isolation and profile management with Firebase Auth.
  - **Tech**: React, TypeScript, Vite, TailwindCSS, Firebase Firestore, Firebase Auth

## PROJECTS

- **Smart Vision- based Parking Detection System | Github** Dec' 2025
  - Developed a real-time parking slot occupancy detection system suing CNN model training on live camera.
  - Build a full data pipeline including ROI labelling, Dataset collection automation, model training and live interface.
  - Achieved ~100% accuracy and implemented real-time detection UI with OpenCV showing per-slot empty/occupied status with bounding-box overlays and summary analytics.
    **Tech**: Python, PyTorch, OpenCV, numpy, Computer Vision
- **Handwritten Digit Recognition System | Github** Aug' 2025
  - Built a complete web-based handwritten digit recognition system using a custom CNN trained on the MNIST dataset.
  - Implemented data preprocessing, model training, evaluation, and deployment using FastAPI and Uvicorn.
  - Achieved ~98.6% test accuracy with a lightweight CNN optimized for fast inference.
    **Tech:** Python, TensorFlow, Keras, NumPy, FastAPI, Uvicorn, HTML, JavaScript, CNN, MNIST Dataset, Model Deployment
- **CHAT-E — AI-Powered Conversational Assistant | Github** Aug' 2025
  - Built a modular AI chatbot system with support for text generation, text-to-speech and real-time web search.
  - Implemented separate modules for automation, model handling, conversation logic and search,
  - Integrated OpenAI APIs for language and image models, enabling natural dialogue and dynamic task execution.
    **Tech:** Python, OpenAI API, Hugging face, Speech Recognition, Real-Time Search, Modular Architecture.

## CERTIFICATES

- Build Generative AI Apps and Solutions with No-Code Tools – Udemy – Infosys Springboard | **Link** Aug' 2025
- Master Generative AI & Generative AI tools – Udemy – Infosys Springboard | **Link** Jul' 2025
- ChatGPT Made Easy: AI Essentials for Beginners – Udemy – Infosys Springboard | **Link** Jul' 2025

## ACHIEVEMENTS

- **Hackathon IA by Bpifrance**: Dec' 2024
  Qualified For 3rd round among competing teams(24hrs)

## EDUCATION

- **Lovely Professional University** Phagwara, Punjab
  Bachelor of Technology - Computer Science and Engineering; **CGPA: 6.3** Aug' 2023 - present
- **Institut Supérieur D'Électronique De Paris** Paris, France
  Semester Exchange: Artificial Intelligence and Machine Learning **Percentage: 80%** Sep' 2024 – Feb' 2025
- **Delhi public school (CBSE)** Vijayawada, India
  Intermediate ; **Percentage: 75%** Apr' 2021 - March 2022