

Thrishatha A

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Profile

Final-year Information Technology student with strong Java skills and working knowledge of Python. Solid understanding of CS fundamentals, including Operating Systems, Computer Networks, Object Oriented Programming and Database Management Systems. Known for problem-solving, logical reasoning and adaptability, with a keen interest in contributing to innovative projects and collaborating effectively within teams.

Education

PSG College of Technology

Bachelor of Technology in Information Technology | CGPA: 8.99/10 | Oct 2022 – May 2026

Kongu Vellalar Matriculation Higher Secondary School

Class XII | Percentage: 98.67 | May 2022

Nirmala Matha Convent Matriculation Higher Secondary School

Class X | Percentage: 98.40 | Mar 2020

Technical Skills

- **Languages:** Java (Proficient)
- **Databases:** RDBMS
- **Tools:** VS Code, IntelliJ
- **Certifications:** *Blockchain Basics* | *Google AI Essentials* | *Prompt Engineering*

Projects

Digital Twin-based Seizure Prediction | DNN, FL & Differential Privacy | Jun 2025

- Built a privacy-preserving seizure prediction system using CHB-MIT EEG data by training local DNN models on personalized digital twins and combining them through Federated Averaging with Differential Privacy.
- Applied SHAP and LIME for explainability and integrated the global model into a real-time Streamlit dashboard to deliver continuous monitoring, visualization, and seizure risk alerts.

Blockchain-Based Product Authentication System | Ethereum DApp | Aug 2024

- Designed and developed a decentralized application (DApp) to verify product authenticity on Ethereum using Solidity smart contracts and Truffle for deployment on a local blockchain.
- Integrated MetaMask and Web3.js, enabling secure, tamper-proof, on-chain product verification to combat counterfeiting in supply chains.

Automated Gun Turret System | Built using Arduino and Python | Jun 2023

- Developed a real-time computer vision system using YOLOv8 for accurate object detection & tracking.
- Built a functional prototype that accurately detects and locks onto targets by real-time computer vision.

Additional Activities

- Participated in Smart India Hackathon 2023, representing the Automated Gun Turret System.
- Organized events as a member of the Fine Arts Club and the Dramatix Club.
- Served as the School Pupil Leader.