Tharun K

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Education

SRM Institute of Science and Technology　　　　2022–2026
Bachelor of Technology - CGPA: 8.25　　　　*Kattankulathur, Chennai*

Kendriya Vidyalaya CUTN Residential Campus　　　　July 2022
Higher Secondary Education　　　　*Thiruvarur, Tamil Nadu*

Experience

Hyundai Motor India Limited　　　　July 2024
Machine Data Analytics Intern　　　　*Sriperumbudur, Tamil Nadu (On-Site)*

- Performed real-time data analytics on robot motion data from manufacturing shops using MySQL and Python.
- Implemented an auto-ticketing system to alert threshold violations (temperature, power) for robots.
- Used Qlik dashboards for live monitoring and data-driven decision-making.

Daimler India Commercial Vehicles　　　　Dec 2024 – Jan 2025
Manufacturing Process Automation Intern　　　　*Chennai, Tamil Nadu (On-Site)*

- Automated Excel-based production planning using Python with formulas and applicability matrices.
- Built a user-friendly frontend interface using HTML and CSS.
- Collaborated with the Manufacturing Engineering Team to align automation with targets.

Projects

Real Estate Property Verification System | *MERN Stack* [View Project]　　　　May 2025

- Full-stack platform with role-based dashboards for sellers, buyers, agents, and admins.
- JWT authentication, ML-based anomaly detection for pricing, and admin/agent verification workflows.

Lung Disease Detection Web Application | *Python, TensorFlow, Flask* [View Project]　　　　Sept 2024

- Built CNN-based disease detection from chest X-ray images with a real-time Flask web interface.
- Designed to assist doctors with rapid diagnosis of lung conditions.

Seabed Prediction Project | *CNN, Keras, TensorFlow* [View Project]　　　　June 2024

- Built a CNN model using Keras to classify sonar images into ships and airplanes with multi-layer convolution and pooling.
- Used ImageDataGenerator for preprocessing and visualized training/validation accuracy and loss trends.

Technical Skills

Languages: Python, Java, C++, SQL, HTML/CSS

Frameworks: React.js, Node.js, Flask, FastAPI, TensorFlow, Keras

Developer Tools: Git, Docker, GCP, VS Code, PyCharm

Databases: MySQL, MongoDB, PostgreSQL

Certifications

Oracle Certified Foundations Associate
AWS Academy Cloud Operations
Programming in Java (NPTEL)
Other Certifications