KAARTHICKEYAN D

Machine Learning Intern Applicant

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1 Summary

Machine Learning and Computer Vision enthusiast with internship experience in predictive analytics, medical image processing, and survey data quality modeling. Strong Python and ML pipeline skills with interest in AI security aligned with Aurva's identity-aware, runtime-first data intelligence.

2 Internships

Data Analyst Intern
Course5i

📅 May 2025 – Jul 2025

- Developed ML model for survey data quality scoring.
- Built reviewer dashboard for insights.
- Automated data validation pipelines.

Software Engineer Intern
SolidPro

📅 Jun 2024 – Jul 2024

- Implemented predictive analytics systems using Streamlit.
- Performed text extraction & preprocessing for glucometer data.
- Contributed to kidney-stone segmentation research.

3 Projects

AI-Assisted MPPT Solar Optimization (Completed)

- ML regression model to predict duty cycles using IR & temperature.
- Improved converter efficiency under varying conditions.

AI-Powered Solar Cleaning Bot
College Funded Project

- Designed AI-driven solar cleaning robot using ML-based dirt detection.
- Built autonomous navigation optimized for dusty surfaces.
- Selected for institutional funding.

Intelligent Traffic Control System
2nd – Techvilla
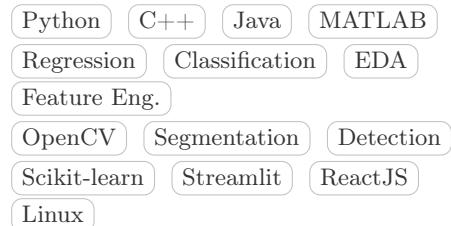
- Built ambulance detection using OpenCV & motion cues.
- Designed real-time traffic-prioritization algorithm.

Survey Quality Check System
1st Prize – Course5i

- ML anomaly-detection pipeline for survey response scoring.
- Automated insights for analysts.

1 Skills

`Python` `C++` `Java` `MATLAB` `Regression` `Classification` `EDA` `Feature Eng.` `OpenCV` `Segmentation` `Detection` `Scikit-learn` `Streamlit` `ReactJS` `Linux`

2 Education

B.Tech – CSE (AI & ML)
VIT Chennai
📅 2022 – Present

HSC – 91.2%
SKNS PMC VVJC
📅 2022

SSC – 88.6%
SKNS PMC VVJC
📅 2020

3 Achievements

🏆 **1st – Course5i Data Quality Hackathon**

🏆 **2nd – Techvilla Hackathon**

🏆 **7th – IIT Bombay Techfest**

🏆 **Smart India Hackathon – Qualified**