

# MASUDI SAI HARSHA

AI/ML Engineer | Computer Vision | Data Analysis

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## PROFESSIONAL SUMMARY

Final-year CSE (AI & ML) student with hands-on experience building computer vision systems and deploying real-world AI applications. Strong foundation in Python, machine learning, and computer vision through multiple projects using YOLOv8, OpenCV, and Scikit-learn. Eager to apply practical AI/ML skills in an industry role.

## EDUCATION

<b>B.E. — CSE (AI &amp; ML)</b> • Mangalore Institute of Technology & Engineering	2022 – Present   CGPA: 7.8
<b>Senior Secondary (12th)</b> • KV Porbandar	2021 – 2022   72%
<b>Secondary School (10th)</b> • KV Ashok Nagar, Chennai	2019 – 2020   82%

## SKILLS

<b>Languages:</b>	Python, C
<b>ML / CV:</b>	Scikit-learn, TensorFlow, PyTorch, YOLOv8n, OpenCV
<b>Libraries:</b>	Pandas, NumPy, Flask
<b>Data &amp; BI:</b>	Excel, Tableau, Power BI
<b>Databases:</b>	MySQL, MongoDB, SQL
<b>Web:</b>	HTML, CSS
<b>Tools:</b>	Git, GitHub, Solid Edge, Adobe Photoshop, Adobe Illustrator, UiPath StudioX
<b>Drone:</b>	Autonomous Operation, Basic Piloting, Drone Assembly

## PROJECTS

### Offline Training Application — Indian Coast Guard | Python · Flask · Deployed aboard ICGS Samarth

- ▶ Built and deployed a standalone offline training portal (.exe) for the Indian Coast Guard ship ICGS Samarth, replacing manual document distribution.
- ▶ Features included: full offline access to training materials, global search across all content, auto-loading of documents/videos/manuals, and clean admin interface for updates.
- ▶ Awarded a Letter of Appreciation by ICGS Samarth for successful deployment and impact.

### EdgeVision AI — Blind-Spot & Lane Change Assist | YOLOv8n · OpenCV · Python | Group of 4

- ▶ Developed a real-time driver-assistance system using YOLOv8n and OpenCV for blind-spot detection and lane-change safety warnings.

### Real-Time Lane Detection System | YOLOv2 · Deep Learning · Python | Group of 2

- ▶ Built a unified deep learning pipeline combining object detection and lane segmentation for real-time video input.
- ▶ Achieved robust accuracy across varied road and lighting conditions without ROS dependency, ensuring lightweight execution.

### SQL Employee Management System | MySQL · Relational DB Design

- ▶ Designed a normalized relational database with full CRUD support, JOINS, aggregate analytics, and automated salary/rank computation.

## CERTIFICATIONS & COURSES

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- ▶ Autonomous Drone Assembly & Flight Operation — Aviocian Technologies (Jan 2024)
- ▶ Learn Python Programming Masterclass — Tim Buchalka (May 2024)
- ▶ Machine Learning Onramp — MathWorks
- ▶ HTML Web Development Crash Course — Infosys Springboard (Jan 2023)
- ▶ UiPath StudioX Automation Basics — UiPath

## ACHIEVEMENTS & ACTIVITIES

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- ▶ Letter of Appreciation — Indian Coast Guard (ICGS Samarth) for deployed software product.
- ▶ Treasurer, ARTIFERA (AIML Club), MITE (2023–24) — managed budgeting and event coordination.
- ▶ Bengaluru Tech Summit (BTS) — Attendee 2023, Team Lead 2024; engaged with AI, robotics, and IoT innovators.
- ▶ CTF Hackathon, MITE 2024 — competed in cybersecurity challenges hosted by CRYPTON Club.
- ▶ Ideathon Pitches — Dhyuloka (2023) & FINZEN (2024); pitched tech-driven solutions for sustainability and financial literacy.
- ▶ Logo Design Competition — ISE Department, MITE (2024).