

# SATYAM MISTARI

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## PROFESSIONAL SUMMARY

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AI/ML/Robotics engineer with strong experience in **machine learning, computer vision, and data-driven systems**, applied to real-world robotics, healthcare, and automation problems. Comfortable working across the full ML lifecycle — **data preparation, model training, evaluation, deployment, and system integration**. Strong problem-solving mindset with experience building scalable, production solutions.

## EDUCATION

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<b>Ajeenkyा DY Patil Schol of Engineering</b> <i>Bachelor's, Robotics/Mechanical Engineering</i>	<b>May 2023 - May 2027</b>
• Specializations in Robotics/Machine Learning	

## CERTIFICATIONS

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- **Machine Learning & Deep Learning** – Coursera
- **NLP/Computer Vision Fundamentals** – Coursera
- **100xDevs (Harkirat Singh)** – Backend, systems, and scalable engineering

## PROJECTS & OUTSIDE EXPERIENCE

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### Holo Battalion – Coordinated Swarm Robotics (Ongoing) e-Yantra Robotics Competition 2025 – IIT Bombay

*ML Engineer / Developer*

- Developed ML-based vision systems for detecting and classifying warehouse objects.
- Worked on decision logic and coordination algorithms for multiple autonomous agents.
- Built data-driven logic for optimizing movement and task allocation.
- Focused on reliability in dynamic, real-world environments.
- Key Skills Used:
- Computer Vision, ML Pipelines, Optimization Logic, Python

### Warehouse Drone :- e-Yantra Robotics Competition 2024 – IIT Bombay

*AI / Robotics Engineer*

- Developed an autonomous indoor warehouse drone using ROS, MAVROS, and Python.
- Implemented computer vision-based navigation and precision landing using OpenCV.
- Achieved 95%+ success rate in autonomous docking and localization under dynamic warehouse conditions.
- Designed modular flight control, perception, and decision-making pipelines aligned with industrial automation standards.
- Optimized navigation and safety logic for reliable operation in cluttered indoor environments.
- Evaluated system performance through repeated autonomous flight trials.
- Improved reliability in complex, unstructured indoor environments.

### LunaBot – Autonomous Navigation Robot for Lunar Habitats (In Development)

*ML/Computer Vision Developer*

- Built an AI-driven autonomous navigation system for environments without GPS.
- Designed perception pipelines using LiDAR, camera, and IMU data.
- Implemented obstacle detection and environment understanding using computer vision and ML techniques.
- Integrated ML-based decision-making with real-time navigation logic.
- Evaluated system performance using simulation-based testing with realistic conditions.
- Structured codebase in a modular, production-style architecture.
- Key Skills Used:
- Machine Learning, Computer Vision, Sensor Fusion, Model Evaluation, Python, ROS

### eHEALTHWAVE – Secure Digital Health Records Platform

*Backend & ML Systems Contributor*

- Worked on data pipelines for secure medical data handling.
- Designed access-controlled systems to ensure privacy and data integrity.

- Applied system design principles used in real enterprise software.
- Experience working with security-sensitive and compliance-driven data.
- Key Skills Used:
- Distributed Systems, Data Pipelines, Backend Engineering

## SKILLS

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**Machine Learning & AI:** Machine Learning & AI, Supervised & Unsupervised Learning, Model Training, Evaluation & Optimization, Feature Engineering & Data Preprocessing, Inference Pipelines & Experiment Tracking

**Deep Learning:** CNN-based vision models, PyTorch, TensorFlow, Keras, NLP & representation learning (foundations)

**Computer Vision:** Object Detection & Classification, Vision-based perception pipelines, Image Processing (OpenCV)

**Programming & Tools:** Python, NumPy, Scikit-learn, Git, GitHub, Linux

**Data & Storage:** PostgreSQL, MongoDB

## ACHIEVEMENTS

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Finalist at **Smart India Hackathon (SIH)** among **68K+** teams nationwide;

**Top-15** at **Hack2Future (35K+ participants)**.

Finalist at **Hack2Crack (40K+ students)**.

Active contributor to **10+ national & international hackathons**.