

# Mayuri Sanjay Atole

Parawadi, Baramati

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 GitHub: <https://github.com/>

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## Objective

To enhance my professional skills, capabilities and knowledge in an organization which recognizes the value of hard work and trusts me with responsibilities and challenges.

## Education

Course / Degree	School / University	Grade / Score	Year
Master in Computer Application	Pratibha Institute of Business Management	Agg(8.42)	2024-26
Bsc.COMPUTER SCIENCE	vidya pratishthan's arts science & commerce college baramati	8.78	2024
HSC	Creative International school and jr.college Baramati,pune	80.50	2021
SSC	Shree Nageshwar English Medium School Shetphal Gadhe,Tal.Indapur,Dist.Pune	65.80	2019

## Skills

- Programming: Python, HTML, CSS, Basic Java ,mongodb
- Data & Analytics: Power BI, Tableau, Machine Learning, Deep Learning, AI
- SOFT SKILLS:-Teamwork, Time Management, Communication & Presentation ,Creativity ,Team Coordination
- Others: Data Structures & Algorithms (DSA), software Testing, Statistics

## Projects

### • Research Paper Project (Tech Meets Tradition: Baramati's Sugarcane Farming Through the Lens of AI)

-Presented an AI-driven framework combining satellite remote sensing, CNN/Vision Transformer disease detection, and subsurface drip irrigation with fertigation for sustainable sugarcane farming in Baramati.  
-Achieved 98.2% disease detection accuracy

### • Sugarcane Leaf Disease Classification

Developed a deep learning-based image classification system to accurately detect and classify sugarcane leaf diseases. Utilized Convolutional Neural Networks (CNN) with advanced image preprocessing and augmentation techniques. Trained the model on annotated datasets to identify multiple disease categories, achieving high accuracy for early and precise disease diagnosis, aiding sustainable agricultural practices.

### • Agri-Tech(On going)

Built a full-stack web platform connecting farmers and suppliers with AI-powered product recommendations, multilingual support, and real-time chatbot assistance. Developed using MERN stack with secure authentication, role-based dashboards, and integrated payment systems for a seamless e-commerce experience

### • Diabetes-Prediction-ML-Models

Conducted exploratory data analysis, preprocessing, and feature engineering on clinical diabetes data. Trained and compared models including Logistic Regression, Random Forest, XGBoost, LightGBM, and CatBoost,

achieving 84.5% accuracy. Developed a deep learning ANN and a hybrid ensemble model with Random Forest and XGBoost, reaching 95.5% accuracy. Deployed models using Keras and joblib with Python libraries.

- **YOLO-Agentic-Object-Detection**

Developed an AI-powered computer vision system using YOLOv11 nano and YOLOE segmentation models for real-time object detection, instance segmentation, and pose estimation. Integrated Ultralytics, AutoGen, and Gemini language models to build interactive multimodal pipelines with conversational AI agents, demonstrating expertise in Python, deep learning, and advanced AI frameworks for real-world applications.

## Achievements & Awards

- Natya Street Play event at the Intercollegiate Fest, Udaan
- Vidya tech project presentation , poster presentation
- Research paper Publication Certificate :-[IRJMETS]

## Publications

- **IRJMETS Research Publication Certificate**

-Paper: "Tech Meets Tradition: Baramati's Sugarcane Farming Through the Lens of AI".

-Authors: Atole Mayuri (First Author), Pooja Badade, Sandesh Kumbhar, Prof. Kavita Divekar, Prof. Priya Mathurkar.

-Description: Peer-reviewed paper in IRJMETS (Vol. 7, Issue 12, Dec 2025; DOI: 10.56726/IRJMETS86999) presenting an AI-driven framework that combines satellite monitoring, CNN/ViT disease detection, and subsurface drip irrigation with fertigation, achieving up to higher yield, less water use, lower pesticide use, and higher profitability for sugarcane farmers in Baramati.

## Activities

- Viosa corporate mentorship program
- TCS ION Career Edge Young Professional
- PI-300 power BI microsoft
- NPTEL swayam software testing
- IRJMETS Research Publication Certificate

## Languages

- English
- Hindi
- Marathi

## Online Platform

- GitHub: <https://github.com/>
- [linkedin.com/in/mayuri-atole-9a4b25288](https://www.linkedin.com/in/mayuri-atole-9a4b25288)

## Hobbies And Interests

- Photography
- Communication
- Art, sketching
- Leadership
- Volunteering
- Teamwork