



Dattaraj Vidyasagar

International Robotics Trainer

About Me

Student of Science & Technology!
People call me teacher...!

Skills

- Applied Electronics
- Robotics
- Neural Network
- Data Science
- ML
- AI
- Music
- Drawing

Contact

Ranpise Nagar,
Near 12-Jyotirling Temple,
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Qualifications

M.S. in Applied Electronics, OH, USA (online), A.M.I.E.T.E. in Electronics & Telecomm.,
Diploma in Cyber Law; M.A. in Russian Language, Sanskrit Alankar.

Regional Mentor of Change (RMoC-1619) Niti Ayog, Govt. of India, Panelist Dr. Homi Bhabha Foundation,
International Robotics Trainer,
Google Certified Educator (Level-1)

Veteran of Electronics & Robotics since 36+ years.

Research

- ✓ Vision-Guided Robotic Arm with Reinforcement Learning for Precision Agriculture Tasks such as Weeding and Harvesting
- Development of a Deep Neural Network-Based Soft Robot Gripper for Handling Delicate Agricultural Produce in Automated Packhouses
- Edge AI-Powered Autonomous Drone Swarm for Crop Health Monitoring and Variable Rate Pesticide Spraying
- Self-Learning Industrial Cobots using Federated Learning for Collaborative Assembly Line Optimization
- ✓ Adaptive Control of Agricultural Exoskeletons using EMG Signal Analysis and Neural Networks for Farmer Ergonomics
- IoT-ML Integrated Smart Irrigation System using Predictive Soil Moisture Modeling and Plant Stress Analysis via Thermal Imaging
- Hybrid Neural-Genetic Algorithm for Fault Detection and Predictive Maintenance in Industrial Robotic Systems
- AI-Driven Autonomous Tractor with Multi-Sensor Fusion for Terrain-Adaptive Navigation and Seeding
- ✓ Real-Time Crop Disease Classification Using YOLOv8 and Transformer-Based Deep Learning Models on Low-Power Robotics Platforms
- Robotic Arm Manipulation with Force Feedback and Deep Q-Networks for Industrial Pick-and-Place Operations with Fragile Items

Read & cite my work on Researchgate.com

Languages

English 
Hindi 
Marathi 