

**REAL TIME AI POWERED IMPLEMENTATION PROJECTS**

# **JDNET TECHNOLOGIES CUDDALORE**



**9159395080**



**6369929654**

## **FINAL YEAR PROJECTS**

### **BE INSTRUMENTATION AND CONTROLL ENGINEERING**

**100 %  
PLACEMENT  
ASSISTANCE**

**NO:31, SUBBURAYA CHETTY STREET, THIRUPAPULIYUR,  
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# **REAL TIME AI POWERED IMPLEMENTATION PROJECTS**

## **INDUSTRIAL AUTOMATION AND PROCESS CONTROL**

1. PLC-Based Real-Time Process Control for Chemical Mixing Plant
2. SCADA Integrated Power Plant Monitoring System
3. Automatic Flow and Pressure Control Using PID and PLC
4. Fuzzy Logic-Based Temperature Regulation in Industrial Furnaces
5. Intelligent Conveyor Sorting System Using PLC and Sensors
6. Real-Time Industrial Automation Using Raspberry Pi and Modbus
7. PID Controller Tuning for Thermal Process Control Using MATLAB
8. IoT-Based Remote Industrial Process Monitoring and Control
9. Automation of Bottle Filling and Capping Using Programmable Logic Controllers
10. Design and Simulation of DCS for Industrial Process Control
11. Adaptive Control of Flow Process Using Neural Network-Based Controller
12. PLC-Based Water Treatment and Filtration System Automation
13. Process Parameter Optimization Using Model Predictive Control
14. Wireless Control of Industrial Motor Speed Using VFD and IoT
15. SCADA-Based Automatic Pressure Control System
16. Industry 4.0-Enabled Process Monitoring Dashboard
17. PLC-SCADA Integration for Cement Plant Automation
18. PID and Fuzzy Hybrid Control for Heat Exchanger System

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19. IoT-Based Smart Factory Automation Using MQTT Protocol
20. Distributed Control of Multi-Loop Temperature System
21. Process Automation Using OPC UA and LabVIEW Interface
22. Energy-Efficient Control of Industrial HVAC System
23. Smart Industrial Tank Level Control Using Ultrasonic Sensors
24. Supervisory Control of Pumping Station Using IoT
25. Fuzzy Controller for Distillation Column Temperature Stabilization
26. Real-Time Pressure Control in Hydraulic System Using PID
27. SCADA-Based Conveyor Belt Monitoring System
28. IoT-Enabled Industrial Safety and Alert System
29. PLC-Controlled Automatic Packaging Line for Food Industry
30. Adaptive Model Predictive Control for Nonlinear Process System
31. Industrial Process Control Using Cloud-Based SCADA Architecture
32. Data-Driven Predictive Control for Smart Manufacturing
33. PLC-SCADA System for Water Distribution Network
34. IoT-Based Boiler Control and Fault Detection System
35. Temperature Control of Continuous Stirred Tank Reactor Using LabVIEW
36. PID Controller Design for Coupled Tank System
37. Real-Time pH Control Using PID and PLC Implementation
38. Model Predictive Controller Design for Heat Exchanger Plant

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39. Distributed PLC Network for Multi-Plant Control
40. Cloud-Based SCADA System for Process Industries
41. PLC-Controlled Material Handling System in Manufacturing Plant
42. Automation of Paper Mill Drying Section Using DCS
43. Predictive Maintenance System Using Sensor Fusion and IoT
44. Energy Optimization in Industrial Automation Using AI
45. Smart Control of Industrial Compressors Using IoT Sensors
46. Adaptive Neuro-Fuzzy Controller for Process Control
47. PLC-Based Oil Refinery Process Automation
48. PID Tuning Using Genetic Algorithm for Thermal Process
49. SCADA-Based Real-Time Fault Diagnosis in Power Systems
50. Cloud-Connected Industrial Automation Using IIoT Gateway
51. IoT-Based Tank Level and Flow Control with Predictive Alerts
52. PLC-Controlled Safety Interlock System for Industrial Machines
53. Automation of Packaging and Labelling Line Using PLC
54. Real-Time Process Control Using NI CompactRIO and LabVIEW
55. Hybrid Fuzzy-PID Controller for Evaporator Process
56. IoT-Based Compressor Control and Efficiency Monitoring
57. Data-Driven Predictive Control in Industrial IoT Environment
58. Smart Process Optimization Using Reinforcement Learning

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## **SMART SENSORS AND MEASUREMENT SYSTEMS**

1. Design of Multi-Sensor Data Acquisition System Using LabVIEW
2. MEMS-Based Vibration Sensor for Machinery Health Monitoring
3. IoT-Enabled Smart Sensor Network for Environmental Monitoring
4. Non-Invasive Blood Glucose Measurement Using Optical Sensors
5. Wireless Sensor Node for Structural Health Monitoring
6. Capacitive Pressure Sensor Design Using COMSOL Simulation
7. Fiber Optic Sensor for Strain and Displacement Measurement
8. Real-Time Air Quality Monitoring Using Multi-Gas Sensor Array
9. Smart Dust Sensor Network for Air Pollution Tracking
10. Development of Ultrasonic Flow Measurement System
11. MEMS-Based Accelerometer for Earthquake Detection
12. Smart Temperature and Humidity Sensor System Using IoT
13. Sensor Fusion Algorithm for Autonomous Vehicle Navigation
14. Smart Soil Nutrient Monitoring Using Embedded Sensors
15. Wearable Sensor System for Continuous Health Monitoring
16. IoT-Based Industrial Gas Leakage Detection System
17. Real-Time Water Quality Analysis Using pH and Turbidity Sensors
18. MEMS Gyroscope for Angular Velocity Measurement in Robotics

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19. Fiber Bragg Grating-Based Temperature Measurement System
20. Smart Energy Meter Using Current and Voltage Sensors
21. IoT-Based Vibration and Thermal Sensor System for Equipment Health
22. Smart Ultrasonic Sensor Array for Obstacle Detection
23. MEMS-Based Pressure Transducer for Biomedical Applications
24. Smart Sensor Interface Using Raspberry Pi for Industrial IoT
25. High-Resolution DAQ System for Precision Measurement
26. Wireless Sensor System for Pipeline Leakage Detection
27. Multi-Sensor Fusion for Fire and Gas Detection in Industries
28. Smart Capacitive Proximity Sensor for Industrial Automation
29. Infrared Sensor Array for Non-Contact Temperature Sensing
30. IoT-Enabled Noise Level Monitoring Using MEMS Microphone
31. Optical Sensor System for Liquid Level Measurement
32. Smart Torque Measurement Using Strain Gauge Sensor
33. Wireless Sensor Node for Remote Structural Integrity Analysis
34. Real-Time Current and Voltage Monitoring Using IoT
35. Smart Data Logger Using ESP32 for Environmental Parameters
36. MEMS-Based Tilt Sensor for Industrial Equipment Alignment
37. IoT-Based Smart Flow Sensor with AI-Based Calibration
38. Laser Distance Measurement System for Industrial Robotics

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## **REAL TIME AI POWERED IMPLEMENTATION PROJECTS**

39. Wireless Smart Sensor Network Using ZigBee Protocol
40. IoT-Based Smart Agriculture Monitoring Using Soil Sensors
41. AI-Enabled Sensor Calibration Using Deep Learning Techniques
42. MEMS Microfluidic Sensor for Biomedical Diagnostics
43. Fiber Optic Sensor System for Pipeline Pressure Monitoring
44. Smart Sensing System for Predictive Maintenance Applications
45. Wireless Vibration Sensor for Wind Turbine Condition Monitoring
46. IoT-Enabled Sensor System for Smart Building Automation
47. Smart pH Sensor System Using IoT and Cloud Analytics
48. MEMS-Based Smart Sensor Design Using ANSYS Simulation
49. Remote Sensor Calibration Using Cloud-Based Interface
50. AI-Driven Sensor Network for Environmental Intelligence
51. Fiber Optic Sensor for Liquid Flow Velocity Measurement
52. IoT-Based Gas Detection and Alert System for Industries
53. MEMS Accelerometer-Based Motion Detection System
54. IoT-Based Industrial Temperature Data Logger
55. Smart Sensor Fusion for Precision Robotics Applications
56. Real-Time Health Monitoring Using Wearable Sensor Networks
57. Smart Energy Monitoring Using Wireless Sensor Modules
58. MEMS-Based Pressure and Vibration Monitoring in Turbines

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# **REAL TIME AI POWERED IMPLEMENTATION PROJECTS**

## **BIOMEDICAL AND ENVIRONMENTAL INSTRUMENTATION**

1. IoT-Based Patient Health Monitoring System Using Biomedical Sensors
2. Non-Invasive Blood Pressure Measurement Using Optical Sensors
3. Wearable ECG Monitoring Device Using Wireless Transmission
4. Smart Biomedical Data Acquisition System Using LabVIEW
5. Portable EEG Signal Monitoring for Brain Activity Analysis
6. IoT-Enabled Smart Ventilator Control System
7. Biomedical Signal Processing for Arrhythmia Detection Using Machine Learning
8. Smart Glucose Monitoring System Using Optical Transducer
9. EMG-Based Prosthetic Arm Control Using Microcontroller
10. Real-Time Body Temperature and Heart Rate Monitoring Using ESP32
11. Automated Drug Delivery System Using Biomedical Sensors
12. IoT-Based Fall Detection System for Elderly Patients
13. Wireless Fetal Heart Rate Monitoring System Using Smart Sensors
14. EEG-Based Brain-Computer Interface for Disabled Assistance
15. Non-Invasive Blood Oxygen Monitoring Using Photoplethysmography
16. Cloud-Based Remote Patient Monitoring Using IoT Devices
17. AI-Powered Diagnostic Tool for ECG Signal Classification
18. Biomedical Signal Compression and Transmission for Telemedicine

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## **REAL TIME AI POWERED IMPLEMENTATION PROJECTS**

19. IoT-Based Smart Wheelchair Control Using Voice Commands
20. Smart Prosthetic Hand Using EMG Sensor and AI Controller
21. LabVIEW-Based Biomedical Signal Analysis System
22. IoT-Based Health Data Logging and Visualization Dashboard
23. Smart Wearable for Continuous Blood Pressure Monitoring
24. Smart Insulin Delivery System Using Embedded Sensors
25. AI-Based Disease Prediction System Using Physiological Parameters
26. Wireless Pulse Oximeter Design Using Bluetooth Communication
27. IoT-Based Hospital Equipment Monitoring and Alerts System
28. AI-Driven Biomedical Sensor Calibration Framework
29. Smart Body Temperature Regulation System for Patients
30. Embedded ECG Signal Analyzer Using Raspberry Pi
31. IoT-Based Air and Water Quality Monitoring Station
32. Smart Waste Management System Using Environmental Sensors
33. Wireless Greenhouse Environmental Monitoring and Control
34. IoT-Enabled Smart Pollution Monitoring in Industrial Areas
35. Solar-Powered Water Quality Monitoring Using IoT
36. Real-Time Noise Pollution Detection Using MEMS Microphone
37. IoT-Based Forest Fire Detection Using Temperature and Gas Sensors
38. AI-Enabled Smart City Environmental Data Analysis System

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39. Cloud-Based Water Resource Monitoring Using IoT
40. Smart Dust and Particulate Matter Detection System
41. IoT-Based Flood Detection and Early Warning System
42. Smart Irrigation System Using Soil and Climate Sensors
43. IoT-Based Weather Monitoring Station Using Cloud Integration
44. AI-Based Prediction of Air Quality Index Using Sensor Data
45. Smart River Water Quality Measurement and Alert System
46. IoT-Based Ocean Wave Monitoring and Data Transmission System
47. Wireless Sensor Network for Forest Environment Surveillance
48. AI-Enabled Smart Farming System Using Environmental Sensors
49. Real-Time Climate Data Logger Using LoRa Technology
50. Smart City Air Quality Index Monitoring Using IoT Platform
51. Environmental Noise Monitoring Using Embedded Sensor Node
52. IoT-Based Water Leakage Detection System for Urban Networks
53. Smart Sewage Monitoring System Using IoT and Cloud Dashboard
54. IoT-Based Radiation Detection Using Smart Sensors
55. Smart Biodiversity Tracking Using Environmental IoT Devices
56. Cloud-Connected Wastewater Treatment Monitoring System
57. IoT-Based Green Building Environmental Control System
58. AI-Powered Predictive Environmental Analytics Platform

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## **EMBEDDED SYSTEMS AND IOT-BASED INSTRUMENTATION**

1. IoT-Based Smart Energy Meter Using ESP8266
2. Real-Time Industrial Parameter Monitoring Using Embedded Controllers
3. Smart Home Automation System Using NodeMCU and Google Firebase
4. IoT-Based Smart Parking System Using Ultrasonic Sensors
5. Embedded System for Intelligent Traffic Light Control
6. Smart Water Management System Using Arduino and Cloud
7. IoT-Enabled Industrial Equipment Tracking and Control
8. Smart Streetlight Automation Using Light Sensors and IoT
9. IoT-Based Cold Storage Monitoring Using Temperature Sensors
10. Embedded-Based Home Energy Management Using Smart Plugs
11. Smart Greenhouse Automation Using Environmental Sensors
12. IoT-Based LPG Gas Leakage Detection and Alert System
13. Real-Time Fire Detection Using IoT-Enabled Flame Sensors
14. Smart Waste Segregation System Using Embedded Vision
15. IoT-Based Smart Water Flow Meter Using Ultrasonic Sensor
16. Industrial IoT Data Logger Using MQTT and Cloud Integration
17. AI-Enabled Smart Home Controller Using Voice Commands
18. Smart Inventory Monitoring System Using RFID and IoT

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19. IoT-Based Smart Streetlight Network Using Adaptive Control
20. Embedded Vibration Monitoring System for Predictive Maintenance
21. IoT-Based Vehicle Tracking and Accident Detection System
22. Smart Campus Energy Monitoring Using Cloud Dashboard
23. IoT-Based Agricultural Field Monitoring Using Soil Sensors
24. Real-Time Gas Monitoring Using LoRa Communication
25. Embedded-Based Smart Irrigation System Using Weather Data
26. IoT-Based Tank Level Control and Monitoring Using Ultrasonic Sensor
27. Smart Cold Chain Monitoring Using Cloud Data Storage
28. IoT-Enabled Smart Building Energy Optimization System
29. Smart Wearable Device for Personal Safety Monitoring
30. IoT-Based Industrial Safety Alert and Response System
31. Embedded Controller for Smart HVAC Energy Regulation
32. Cloud-Connected IoT Device for Remote Monitoring Applications
33. IoT-Based Smart Power Grid Data Acquisition and Control
34. Edge AI Device for Local Industrial Control Applications
35. IoT-Based Health Monitoring System Using Embedded Sensors
36. Wireless Smart Door Access System Using RFID and IoT
37. Real-Time IoT Dashboard Using Node-RED and InfluxDB
38. Cloud-Connected Smart Factory Monitoring Using MQTT

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39. IoT-Based Motor Control and Vibration Analysis System
40. Smart Lighting Control Using Motion Sensors and IoT
41. IoT-Enabled Remote Transformer Health Monitoring
42. Embedded-Based Condition Monitoring System for Rotating Machines
43. IoT-Based Smart Farming and Irrigation System
44. Edge Computing Architecture for Industrial IoT Devices
45. Cloud-Based Predictive Analytics for IoT Sensor Data
46. AI-Powered IoT Controller for Smart Process Automation
47. Wireless Sensor Network for Home Energy Management
48. IoT-Enabled Real-Time Fire and Smoke Detection System
49. Smart Industrial Control Using LoRa and Edge Gateways
50. IoT-Based Condition Monitoring in Manufacturing Plants
51. Smart Factory Controller Using Embedded Predictive Logic
52. IoT-Based Asset Tracking Using GPS and GSM
53. Real-Time Embedded Control System for Energy Efficiency
54. Smart IoT-Based Transformer Fault Detection and Alerting
55. Wireless IoT Node for Multi-Parameter Data Acquisition
56. Cloud-Based Embedded Monitoring for Renewable Energy Systems
57. IoT-Based Intelligent Street Lighting Using Edge AI
58. Smart Home Energy Management Using IoT and Cloud Analytics

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## **CONTROL SYSTEMS DESIGN AND OPTIMIZATION**

1. PID Controller Design for Level and Flow Control in Coupled Tank Systems
2. Adaptive Control of Nonlinear Systems Using Neural Networks
3. Fuzzy Logic Controller for Speed Regulation of DC Motor
4. Optimal Control Design for Magnetic Levitation System
5. Sliding Mode Control for Inverted Pendulum System
6. Model Predictive Control for Process Temperature Regulation
7. Self-Tuning PID Controller Using Genetic Algorithms
8. Adaptive Neuro-Fuzzy Controller for Robotic Manipulator
9. H-Infinity Control Design for Disturbance Rejection Systems
10. Optimal Controller Design for Ball and Beam Balancing System
11. Real-Time Temperature Control Using LabVIEW PID Toolkit
12. State Space Controller Design for Servo Positioning System
13. Adaptive Control of Process Plant Using Reinforcement Learning
14. PID Parameter Optimization Using Particle Swarm Algorithm
15. Robust Control of Uncertain Dynamic Systems
16. Model Predictive Control for DC-DC Converter
17. Fuzzy-PID Hybrid Controller for Process Stability Improvement
18. Adaptive Model Reference Controller for Speed Regulation

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19. Nonlinear Control for Two-Wheeled Self-Balancing Robot
20. Neural Network-Based Adaptive Controller for Dynamic Systems
21. Fractional Order PID Controller for Process Optimization
22. LQR Controller Design for Double Integrator System
23. Robust Controller for DC Servo Motor System Using MATLAB
24. Gain Scheduling Controller for Nonlinear Systems
25. Predictive Controller Design for Coupled Tank Process
26. Smith Predictor Controller for Time Delay Systems
27. Fuzzy Logic-Based Cruise Control System Design
28. Optimal Control of Multi-Input Multi-Output (MIMO) Systems
29. Sliding Mode Controller for Quadrotor Stabilization
30. Model Predictive Controller for Distillation Column Control
31. Neural Network-Based Controller for Thermal Plant Operations
32. Adaptive Backstepping Control for Induction Motor Drive
33. Robust PI Controller for Uncertain Process Dynamics
34. LQR Controller Design for Robotic Arm Position Control
35. AI-Based Predictive Control for Industrial Furnace Systems
36. Adaptive Observer-Based Control for Nonlinear Systems
37. Robust  $H_{\infty}$  Control Design Using MATLAB Simulation
38. Predictive Control for Autonomous Vehicle Steering Systems

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39. Optimal Controller for Power System Load Frequency Regulation
40. Fuzzy Logic Controller Design for Air Conditioner Automation
41. Reinforcement Learning-Based Controller for Dynamic Systems
42. PID Controller Optimization Using Deep Neural Networks
43. Robust Control Design for Unmanned Aerial Vehicles
44. Adaptive PID Controller Using Online System Identification
45. Optimal Controller for Renewable Energy Integration
46. Fuzzy Logic-Based Process Control in CSTR Systems
47. Predictive Control for Robotic Manipulator Joint Movements
48. Neural Network-Based Model Predictive Control for Nonlinear Plants
49. Robust Controller for Temperature Regulation in Heat Exchangers
50. Sliding Mode Control Design for Magnetic Suspension Systems
51. Adaptive Predictive Controller Using AI Algorithms
52. Fuzzy Adaptive Controller for DC Motor Position Control
53. Model Predictive Control for Boiler Temperature System
54. LQR and PID Hybrid Controller for Servo Systems
55. AI-Enabled Self-Tuning Controller for Dynamic Plants
56. Predictive Control for Smart Energy Storage Management
57. Neural Network PID Controller for Autonomous Systems
58. Fuzzy Controller for Multi-Variable Industrial Systems

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# REAL TIME AI POWERED IMPLEMENTATION PROJECTS

## **ROBOTICS, MECHATRONICS, AND** **INTELLIGENT CONTROL**

1. Vision-Guided Pick and Place Robot Using Computer Vision
2. Autonomous Mobile Robot Navigation Using LIDAR and SLAM
3. Robotic Arm Control Using Inverse Kinematics and AI
4. Gesture-Controlled Robotic Manipulator Using Accelerometer Sensors
5. Fuzzy Logic Controller for Autonomous Robot Navigation
6. Path Planning for Mobile Robots Using Reinforcement Learning
7. Obstacle Avoidance Robot Using Ultrasonic Sensors
8. Humanoid Robot Control Using Embedded Systems
9. AI-Driven Robotic Gripper with Adaptive Force Control
10. Real-Time Object Tracking Robot Using YOLO and Raspberry Pi
11. Voice-Controlled Wheelchair Robot for Disabled Assistance
12. IoT-Based Industrial Robotic Arm Monitoring System
13. Vision-Based Line Following Robot Using CNN
14. Smart Surveillance Robot Using Wireless Camera Control
15. Fire-Fighting Robot Using Temperature and Gas Sensors
16. AI-Based Path Planning for Autonomous Drone Navigation
17. Self-Balancing Robot Using Gyroscope and PID Control
18. Swarm Robotics Coordination Using Distributed Control Algorithms

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19. Autonomous Underwater Robot for Environmental Monitoring
20. Robotic Arm Simulation Using MATLAB Simscape Multibody
21. AI-Powered Drone for Smart Agriculture Monitoring
22. Vision-Based Sorting Robot for Industrial Automation
23. Robotic Hand with Haptic Feedback Using Flex Sensors
24. Real-Time Gesture Recognition Robot Using Deep Learning
25. IoT-Based Warehouse Management Using Mobile Robots
26. Path Tracking Robot Using Fuzzy-PID Hybrid Control
27. AI-Based Object Detection Robot Using Jetson Nano
28. Self-Learning Robot Using Reinforcement Learning Algorithms
29. Autonomous Delivery Robot Using Obstacle Detection System
30. Drone-Based Inspection of Industrial Pipelines Using IoT
31. Robotic Arm with Machine Vision for Object Classification
32. Voice-Activated Home Assistant Robot Using AI
33. AI-Enabled Humanoid Robot for Human Interaction
34. Obstacle Avoidance Using LiDAR-Based Mapping Robot
35. Robotic Gripper Control Using Pneumatic Actuators
36. Machine Learning-Based Path Optimization for Robots
37. Line Tracing and Obstacle Avoidance Hybrid Robot
38. Edge AI-Controlled Robot Using Real-Time Inference

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- 39. Robotic Painting System Using Vision Control Algorithms
- 40. Autonomous Drone for Power Line Inspection
- 41. 3D Printed Robotic Arm with Wireless Control Interface
- 42. Reinforcement Learning-Based Multi-Robot Cooperation
- 43. AI-Driven Industrial Robotic Automation Using Digital Twin
- 44. Smart Agricultural Robot Using AI Vision and Sensors
- 45. Robotic Arm for Medical Sample Handling Automation
- 46. Autonomous Warehouse Robot with RFID Integration
- 47. Real-Time Mobile Robot Localization Using Sensor Fusion
- 48. Human Following Robot Using Computer Vision Techniques
- 49. Multi-Sensor Controlled Surveillance Robot
- 50. Drone Swarm Control Using AI-Based Cooperative Algorithms
- 51. IoT-Enabled Underwater Robot for Marine Data Collection
- 52. Machine Learning-Based Fault Detection in Robotic Systems
- 53. Smart Collaborative Robot for Assembly Line Automation
- 54. AI-Powered Robot for Hazardous Environment Operations
- 55. Bionic Arm Control Using EMG Signal Processing
- 56. Real-Time Robotic System for Precision Welding
- 57. Edge Intelligence-Driven Robot for Smart Industry 4.0
- 58. AI-Based Adaptive Control for Humanoid Robot Balancing

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## REAL TIME AI POWERED IMPLEMENTATION PROJECTS

### Connect With Us

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