AcenAAr Technologies Pvt. Ltd.

AcenAAr Technologie's Official AI, ML and AIOT Trainer Kit Guide-2023.



The present era is stirring towards INDUSTRY 4.0 which paved new opportunities for technocrats. Al and ML technology has made mandate for very huge skilful manpower in present scenario. Seeing the dire need of technology many educational institutions in India and abroad are introducing Al and ML technology courses both in theory and practice. also, with kits we are presenting programming procedure for resource unequivocally designed Al and ML kit. special care is taken to keep instruction simple and clear and yet cover utilization of all resources available in the kit. At the end of the laboratory, students will acquaint with kit and have confidence to develop the Al and ML programs and applications

Call for Quotation

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MODEL-A EDGE AIOT KIT

Controll Unit	Sensor Unit		
 Machine Vision cam Module. Arduino nano with extended connectors. 	 3. Ultrasonic sensor 4. PIR sensor 10. TDS sensor 5. DHT sensor 11. Joystick 6. IR sensor 12. colour sensor 7. LDR sensor 8. Key board 9. MQ 135 sensor 		
Actuator Unit	Display Unit		
13. Servo motor 14. Realy 15. Buzzer	16. LCD Dispaly 17. Seven Segment 18. Logic LED's 19. RGB LED		
Connectivity unit	Miscellaneous		
20. ESP8266 Wi-Fi module 21. Bluetooth module	22. 400 points solderless breadboard		



Highlights of the kit

- 1. Customized Edge AIOT trainer KIT
- 2. 200+ experiments
- 3. Well devoloped Manuals
- 4. Ease of operations
- 5. Mini & Major Projects

AI and ML WORKSTATION

Controll Unit	Sensor Unit	
 Machine Vision cam Module. Arduino nano 33 BLE Sensce. Raspberry pi-400 single board computer. ESP 32 Board 	5. IMU sensor 6. Microphone 7. Gresture, light, proximity 8. Barometric Pressure sensor 9. Temperature and humidity Sensor 10. TDS sensor 11. MQ 135 sensor 12. joystick	
Actuator Unit	Display Unit	
13. Stepper motor	14. 1.8" TFT display	
Connectivity unit	Miscellaneous	
15. Bluetooth module in BLE sence 16. HC-05 module	17. 400 points solderless breadboard 18.Monitor	



Highlights of the kit

- Comes with Rpi 400 single board computer and Monitor
- 2. 200+ experiments
- 3. Comes with four controllers
- 4. Ease of operations
- 5. Mini & Major Projects

list of Laboratories

S.no	Name of the LAb	Description	
Lab -1	Python Level-1	Introduction to implementation of basic algorithms for AI and ML.	
lab - 2	Python Level-2	Introduction to real time data acquisition using sensors sor AI & ML	
Lab -3	Data Science Lab	Introduction to implementation of data science algorithms for Ai & ML	
lab -4	AI & ML Level -1	Apply Ai & ML concepts on real time applications.	
Lab-5	Al & ML Level -2	Implementation of Ai & ML con -cepts on real time application.	
Lab-6	Al & ML Level -3	Implementation of Ai & ML adva -nced concepts on real time application.	
Lab-7	Edge Al & ML - L1	Quick start Edge AI & ML Machine vision application.	
Lab-8	Edge Al & ML - L2	Quick start AI & ML in open MV application with Ultra low power microcontrollers.	
Lab-9	AIOT projects	Devolop AI & ML AIOT projects	
Lab-10	NLP LAB	NLP programming	

Technoical specification for Software and hardware AI & ML

Languages	Python	C++	
Ultra-low power Micro controller & MC		CORE CORTEX	KENDRYTE K210
Tools	Open CV TINY ML Tableau	Open CV Keras seikit-learn	Tensor Flow Tensor Flow - lite
SCM & ML	Glt Hub	Up-Works	TO ON