



## INVENTORS CHALLENGE SHORTLISTED APPLICATION FOR 2024-25

S.No	Name of the Institution	Faculty Name	Department	Theme	Idea Description
1.	M S Ramaiah Institute of Technology	Mrs S Dawnee	Electrical and Electronics	Good health and Well-Being	A non-invasive photoplethysmography (PPG) based diagnostic assistive system for diabetes and related complications
2.	G H Raisoni Institute of Engineering and Technology, Nagpur	Dr. Sanket B. Kasturiwala	Electronics & Telecommunication Engineering	Industry, Innovation, and Infrastructure, Smart Mobility	A NOVEL APPROACH FOR ACCIDENT PREVENTION OF BOXN WAGON TRAIN.
3.	AMET University, Chennai	Dr.R. Muthudineshkumar	Mechanical Engineering	Affordable and Clean Energy	A sustainable, innovative bio-based char as emerging electrode material for energy storage applications
4.	Mar Athanasius College of Engineering, Kothamangalam, Kerala	Kiran Christopher	Mechanical Engineering	Industry, Innovation, and Infrastructure, Artificial Intelligence at the Edge	AI - Assisted Bio-mimetic Pepper Harvesting System
5.	Jansons Institute of Technology	Dr.G.Vetrichelvi	Electronics and Communication Engineering	Industry, Innovation, and Infrastructure	Ai powered Structural Integrity Assessment and Maintenance System using STM32MP157F - DK2
6.	Anil Neerukonda Institute of Technology and Sciences	Dr A Venkatesh	Electrical and Electronics Engineering	Artificial Intelligence at the Edge, Smart Mobility	AI-DRIVEN TRAFFIC SIGNALS & MANAGEMENT
7.	Jansons Institute of Technology	Mrs.P.Eswari	Electronics and Communication Engineering	Industry, Innovation, and Infrastructure	AI-Enabled Conversion of Analog Vacuum Pressure Data for Rotten Food Detection in Packaging Industry
8.	B V Raju Institute of Technology	Dr. Kalathiripi Rambabu	Electronics and Communication Engineering	Good health and Well-Being	AI-Physio Speak
9.	Supreme Knowledge Foundation Group of Institutions	Monisha Ghosh	ECE	Good health and Well-Being	An EMG based cost effective Prosthetic hand
10.	St. Peter's Engineering college	K.Sreelatha	EEE	Artificial Intelligence at the Edge	An Optimization Model for Minimizing Waiting Time in Charging Queues and Maximizing Charging Station Utilization for Electric Vehicles



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11.	Institute of Technology, Nirma University	Dr. Sachin Gajjar	Electronics and Communication Engineering	Good health and Well-Being, Artificial Intelligence at the Edge	Anomaly Detection in ECG Signals using Tiny-ML for ICU Patients: An Early Warning Alert System
12.	PSNA COLLEGE OF ENGINEERING AND TECHNOLOGY	Mrs.R. ADHI LAKSHMI	INFORMATION TECHNOLOGY	Sustainable Cities and Communities	AQUASENSE-"The next Gen water monitoring and optimization system"
13.	R.M.K. College of Engineering and Technology	Mr. V. Sudharsanam	Department of Electronics and Communication Engineering	Industry, Innovation, and Infrastructure, Smart Mobility	ARM Based Antenna Positioning System
14.	Dronacharya College of Engineering	Ashwini Kumar	Computer Science	Good health and Well-Being, Industry, Innovation, and Infrastructure, Artificial Intelligence at the Edge	ARRSY ( Auto Rescue Response System)
15.	Acharya Institute of Technology, Bangalore,560 107	Kavitha Nair R	Artificial Intelligence and Machine Learning	Good health and Well-Being, Artificial Intelligence at the Edge	AutBot: A novel machine learning algorithm for Autism Detection
16.	KONGU ENGINEERING COLLEGE	Pavithara.P	Electronics and Communication Department	Good health and Well-Being	Auto-Balancing Orthopedic Leg Braces using Inertial Stabilizing Technology
17.	NSHM Durgapur	Alok Nath Pal	Computer Science Engineering	Smart Mobility	Automated unmanned delivery system
18.	Pranveer Singh Institute of Technology, Kanpur	Prof. (Dr.) Manish Kumar	ECE	Good health and Well-Being, Sustainable Cities and Communities	Automatic Sewage Monitoring System using IOT
19.	Mar Athanasius College of Engineering, Kothamangalam	Dr. Elizabeth Isaac	Computer Science and Engineering	Good health and Well-Being, Industry, Innovation, and Infrastructure, Artificial	Autonomous Ground Rover For Outdoor Trash Collector using Machine Learning



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				Intelligence at the Edge	
20.	K. J. Somaiya College of Engineering	Ninad Mehendale	Electronics Engineering	Industry, Innovation, and Infrastructure	BalloonSat: Revolutionizing Environmental Monitoring with Cost-Effective Solutions
21.	Sharad Institute of Technology, College of Engineering, Yadrav	Mr. Avesahemad S.N. Husainy	Mechanical	Good health and Well-Being, Smart Mobility	Biomechanical Integration of Active Ankle Mechanism for Enhanced Biking in Prosthetics
22.	Gandhi Institute of Technology and Management (GITAM) Deemed to be University	Dr. Prithvi Sekhar Pagala	Electrical Electronics and Communication Engineering	Artificial Intelligence at the Edge, Smart Mobility	Camera & IMU based Localization and Mapping for Indoor Various Applications
23.	CMR Institute of Technology, Bengaluru/n/	Ms. ANSHIKA SHUKLA	Artificial Intelligence & Machine Learning	Artificial Intelligence at the Edge	Car Automation-Driver Monitoring System
24.	Noida Institute of Engineering and Communication	Dr. Pavan Kumar Shukla	Electronics and Communication	Industry, Innovation, and Infrastructure	Climate Monitoring Femto Satellite
25.	Guru Tegh Bahadur Institute of Technology	Dr. Mahender Singh	Electronics and Communication department	Good health and Well-Being, Industry, Innovation, and Infrastructure, Artificial Intelligence at the Edge	CommuniGlove - Empowering mute individuals
26.	SRM Institute of Science and Technology - Ramapuram	Dr. A. Mohanbabu	Electronics and Communication Engineering	Industry, Innovation, and Infrastructure	Design And Development of Advanced Sensor Technology with ANC Smart Helmets and LoraWAN to Combat Physical Health Risks and Hearing Loss for workers in Mining Industry
27.	Ramaiah Institute of Technology	Dr. S G Shivaprasad Yadav	Electronics & Telecommunication Engineering	Industry, Innovation, and Infrastructure, Sustainable Cities and Communities, Artificial Intelligence at the Edge	Design and Implementation of IoT based Rodent Monitoring and Avoidance System in Large Scale Grain Storages (IRMAS)



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28.	KL University	Kalyan Dusarlapudi	ELECTRICAL AND ELECTRONIC S ENGINEERING	Smart Mobility	Design and implementation of Smart interface for Next-Gen Monitoring in EV's
29.	SRM Institute of Science and Technology	Dr.S.UMAMA HESWARI	Electronics and Communication Engineering	Artificial Intelligence at the Edge	DESIGN OF WEARABLE DE-SEIZURE FOR EPILEPSY LIFESTYLE DISORDER
30.	Institute of Engineering & Management (IEM) Kolkata	Dr. Priti Das	Electrical Engineering Department	Affordable and Clean Energy	Development of an economic Waste Oil Recycler (WOR) for sustainable recycling of Used Lubricating Oil
31.	Noida Institute of Engineering & Technology	Dr Sandhya Umrao	CSE-AI	Affordable and Clean Energy, Industry, Innovation, and Infrastructure	Drone-Powered Automated Defect Detection for Solar Panels
32.	Bangalore Institute of Technology	Dr.M Rajeswari	Electronics and telecommunication Engineering	Good health and Well-Being	Dynamic motion capturing
33.	SRI SAIRAM COLLEGE OF ENGINEERING	C.VALARMATHI	CSE	Good health and Well-Being	Early prediction of Foot Ulcer for diabetic patients using IoT based monitoring System
34.	Vellore Institute of Technology, Vellore	Dr. Marimuthu R	School Of Electrical Engineering	Good health and Well-Being, Industry, Innovation, and Infrastructure, Artificial Intelligence at the Edge	EC link
35.	OmDayal Group of Institutions	ARGHYA DEY	Science & Humanities	Sustainable Cities and Communities	EcoInk: Transforming Vehicle Emissions into Sustainable Printing Solutions
36.	Sri Sivasubramaniya Nadar College of Engineering	Dr. S. Aasha Nandhini	Electronics and Communication Engineering	Good health and Well-Being, Artificial Intelligence at the Edge	Embedded vision based assistive system for elderly care
37.	PANIMALAR ENGINEERING COLLEGE	PRITHA N	ECE	Good health and Well-Being	Emergency Functionality in Smart Blind Stick Integrated with Health Monitoring System
38.	St. Thomas College Of	Dr. M.Yogesh	Mechanical Engineering	Good health and Well-Being,	Green Revolution: Bioplastics for Sustainable Packaging



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	Engineering & Technology Kozhuvallur P. O, Chengannur, Alappuzha			Affordable and Clean Energy	
39.	BMS College of Engineering, Bengaluru	Dr. Lalitha S	Electronics and Communication	Good health and Well-Being, Sustainable Cities and Communities	GreenBreeze Filters
40.	K.Ramakrishnan College of Engineering	Subashree M	Computer Science and Engineering	Industry, Innovation, and Infrastructure	GUARD TECH MINER SENTINEL: AN IOT-DRIVEN SAFETY HELMET INITIATIVE FOR ENHANCED WORKER SECURITY
41.	Sathyabama Institute of Science and Technology	Dr. A. Deepa	Department of Computer Science	Artificial Intelligence at the Edge	Helmet Detection Ignition System [HEDIS]
42.	KPR Institute of Engineering and Technology	Dr. N. RAJASINGAM	BME	Affordable and Clean Energy, Industry, Innovation, and Infrastructure, Sustainable Cities and Communities	Hybrid Smart Glass Cleaning Robot for High-Rise Buildings
43.	Syed Ammal Engineering College	SATHYA.D	Artificial Intelligence & Data Science	Good health and Well-Being, Affordable and Clean Energy, Artificial Intelligence at the Edge, Smart Mobility	HYDRA BUG
44.	CMR COLLRGE OF ENGINEERING AND TECHNOLOGY	B.VENKATESHWAR RAO	ECE	Industry, Innovation, and Infrastructure	INNO RESCUE
45.	Gandhi Institute of Technology and Management (GITAM) Deemed to be University, Bengaluru Campus	Mahesh V	VDC	Sustainable Cities and Communities	Intelligent waste collection and segregation using smart systems



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46.	Velammal College of Engineering and Technology, Madurai	Saraswathi P	Information Technology	Industry, Innovation, and Infrastructure	IoT Based Intelligent Watering System: Agriculture
47.	Vishwakarma Institute of Technology	Prof. Dr. Vijay Mane	Electronics and Telecommunication	Industry, Innovation, and Infrastructure, Smart Mobility	Krishi-Yantra: Automated Cotton Farming System for Weed Control and Harvesting
48.	KIET Group of Institutions, Delhi-NCR, Ghaziabad-201206 (UP)	Dr. Brijesh Singh	Electrical and Electronics Engineering	Sustainable Cities and Communities	Laghu Sheetal Sanchaayika: A solar-powered portable chillers (15-20 kg) for agro-dairy products
49.	Rajalakshmi Engineering College	Dr. Rakesh Kumar M	CSE	Industry, Innovation, and Infrastructure, Sustainable Cities and Communities	Life Farm - Animal detection and deterrent system for agriculture using IoT, ML, CV.
50.	Lendi institute of engineering technology	S.Suresh kumar	Ece	Industry, Innovation, and Infrastructure	MINATURE CRO
51.	Karunya Institute of Technology and Sciences	Dr.P.Manimegalai	Biomedical Engineering	Good health and Well-Being, Industry, Innovation, and Infrastructure, Artificial Intelligence at the Edge	MindCare: A Comprehensive Mental Health Assessment and Support system
52.	Sathyabama Institute of Science and Technology (Deemed to be University)	Logesh kumar. P, Saravanan. C	Center for Nanoscience and Nanotechnology	Good health and Well-Being, Affordable and Clean Energy, Sustainable Cities and Communities	Mitigating the Rise in Global Temperature by Domestic Waste Heat Utilization
53.	J D College of Engineering and Management	Dr. S. V. Sonekar	Computer Science and Engineering	Good health and Well-Being, Sustainable Cities and Communities	ML Based IoT Framework for Auto-Identification of potential Water Logging Area Detection Using Drone and its Rehabilitation
54.	K.RAMAKRISHNAN COLLEGE OF ENGINEERING(AUTONOMOUS),TRICHY	N NITHYA	COMPUTER SCIENCE AND ENGINEERING	Sustainable Cities and Communities	Modified solar panel with cooling system



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55.	Sri Manakula Vinayagar Engineering College	V.Logisvary	Electronics and Communication Engineering	Sustainable Cities and Communities	Monitoring System for Faults in Street Lights and Traffic Signals
56.	Thiagarajar polytechnic college	S.Priyanka	Artificial intelligence and machine learning	Industry, Innovation, and Infrastructure, Smart Mobility	Motor cycle helmet detection system
57.	JD College of Engineering and Management	Umesh Samarth	Information Technology	Good health and Well-Being, Affordable and Clean Energy, Sustainable Cities and Communities, Smart Mobility	Multi-Agricultural Technology using adhoc wireless network
58.	SRM Institute of Science and Technology	Dr Vani R	ECE	Good health and Well-Being	Multi-Environment Hexapod Robot for Advanced Rescue Operations
59.	National Engineering College, Kovilpatti	T.Devakumar	Electronics and Communication Engineering	Smart Mobility	Navigation System for visually impaired students using NavIC
60.	Velammal College of Engineering and Technology	Dr.Karthikeyan P	Electronics and Communication Engineering	Good health and Well-Being	Neonatal Smart Health Monitoring System
61.	Velammal College of Engineering and Technology	Dr. Karthikeyan P	Electronics and Communication Engineering	Good health and Well-Being	Neonatal Smart Health care Monitoring System
62.	K S Rangasamy College of Technology	Dr.C.Rajan	Artificial Intelligence and Machine Learning	Good health and Well-Being	NexusPulse - Fetal Heart Rhythm Tracker
63.	SRM Institute of Science and Technology, Ramapuram	Dr.Roopa M	Electronics and Communication Engineering	Good health and Well-Being	PARETIC ASSIST
64.	V.E.S. Institute of Technology, Chembur	Dr. Nilima Vasant Warke	Automation & Robotics (formerly known as Instrumentation Engineering)	Good health and Well-Being	Parkinson's Aid Glove : STM32-Powered Tremor Monitoring and support



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65.	JSPM's Jayawantrao Sawant College of Engineering Pune	Dr. Dattatray Waghole	Computer Engineering	Good health and Well-Being, Industry, Innovation, and Infrastructure, Artificial Intelligence at the Edge	Peak-Patrol : Robotic Surveillance For Avalanche Prone Areas
66.	SRMist KTR	Dr.Devipriya A	C-tech	Affordable and Clean Energy, Industry, Innovation, and Infrastructure, Sustainable Cities and Communities, Smart Mobility	Piezoelectric Flooring
67.	J D College Of Engineering And Management Nagpur	A.V.Joshi	Electrical	Affordable and Clean Energy	power generation using speed breaker
68.	KIET Group of Institutions Delhi NCR Ghaziabad UP	Himanshu Chaudhary	Electronics and Communication Engineering	Industry, Innovation, and Infrastructure	Rail Raksha - The Railway Track Inspection Robot
69.	CMR Institute of Technology	Dr. Ramdas Balan	Department of Physics	Good health and Well-Being	Rapid Response Emergency Aid with Video Call Support
70.	R M.K. Engineering College	Dr.S.Thangaramya	Computer Science and Design	Industry, Innovation, and Infrastructure	RapidSos
71.	HINDUSTHAN INSTITUTE OF TECHNOLOGY	N DINESH	MECHANICAL ENGINEERING	Sustainable Cities and Communities	RENEWABLE ROAD SIDE SWEEPER MACHINE
72.	Shri Shankaracharya Technical campus	Dr.Siddhartha Choubey	Computer Science	Good health and Well-Being, Affordable and Clean Energy, Industry, Innovation, and Infrastructure, Artificial Intelligence at the Edge, Smart Mobility	RideSense:Revolutionary Intelligent Display for Enriched Symbiotic and Navigation Safety Experience





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73.	Jerusalem College of Engineering	Mrs. DEVIPRIYA S	Computer science and engineering	Smart Mobility	ROVER
74.	MGM's College of Engineering, Nanded	Dr. Bhagyashri Sudhakar Kapre	Computer Science and Engineering	Good health and Well-Being, Industry, Innovation, and Infrastructure, Sustainable Cities and Communities, Artificial Intelligence at the Edge, Smart Mobility	Rural Care: Empowering Rural Communities through AI- driven Healthcare Solution
75.	Saveetha Engineering College	Karthiga M	ECE	Industry, Innovation, and Infrastructure, Smart Mobility	SafeDrive: Proactive Hazard Detection and Alert System for Enhanced Road Safety
76.	KGiSL Institute of Technology	SATHISH R	Artificial Intelligence and Data Science	Affordable and Clean Energy, Industry, Innovation, and Infrastructure, Sustainable Cities and Communities	Sand-Powered Renewable Energy: A Circular Economy Approach to Thermoelectric Power Generation
77.	KPR Institute of Engineering and Technology	Dr.P.Sreelatha	Biomedical Engineering	Good health and Well-Being	SECURE VIAL INNOVATION IN ANTI-REUSE TECHNOLOGY
78.	U.V.Patel College of Engineering	Dr. Vishnu B. Patel	Electrical Engineering	Industry, Innovation, and Infrastructure	Self Balancing self controlled Robot
79.	SDM Institute of Technology	Dr. Madhusudhana K	Electronics & Communication Engineering	Industry, Innovation, and Infrastructure	SenseStride
80.	PSNA COLLEGE OF ENGINEERING AND TECHNOLOGY	JEEVITHA J K	Information technology	Artificial Intelligence at the Edge	SKIN DISEASE DETECTION BY USING IMAGE RECOGNIZATION
81.	RAJARAJESWARARI COLLEGE OF ENGINEERING	DEERAJ C	MCA	Affordable and Clean Energy, Industry, Innovation, and Infrastructure, Artificial Intelligence at the	Smart billing and shopping trolley using IOT



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				Edge, Smart Mobility	
82.	Ramaiah Institute of Technology	Dr. Kodeeswarakumaran G	EEE	Sustainable Cities and Communities, Artificial Intelligence at the Edge	Smart Building Energy Management System for Optimized Control of Air Conditioners and Lighting Systems
83.	Acharya Institute of Technology( AIT)	Ranjan G	Computer Science	Good health and Well-Being	Smart Cane
84.	Sri Ramakrishna Institute of Technology	Veerakumar S	Mechanical Engineering	Smart Mobility	Smart Controller Cooling Kit with Black Box Safety Module for Electric Vehicle
85.	JSS Academy Of Technical Education- Bengaluru	Dr. B Umadevi	Mathematics	Good health and Well-Being	Smart Glove for Sign Language
86.	RNS INSTITUTE OF TECHNOLOGY BENGALURU	Mrs. Viraja Deshpande	Mechanical Engineering	Smart Mobility	Smart Hybrid System for Two Wheeler Vehicle
87.	B.N.M Institute of Technology	Dr. Rekha P	Electronics & Communication Engineering	Sustainable Cities and Communities	Smart Parking Management System using ARM-based STM32 Microcontroller
88.	SRM Institute of science and Technology	Dr. S. Indirani	Electronics and Instrumentation		Smart ration card Distribution system
89.	East Point College of Engineering & Technology	Dr.V.Navya	Electronics and Communication Engineering	Good health and Well-Being	Smart Robotic Exoskeleton Arm
90.	Acropolis Institute of Technology and Research, Indore	Dr. Amit Kumar Marwah	Mechanical Engineering	Sustainable Cities and Communities	Smart Sewer Management: IoT Enhanced Cloud Integrated Monitoring System
91.	Assam Don Bosco University, Azara	Dr. Papul Changmai	Electrical and Electronics Engineering	Affordable and Clean Energy	STC Measuring Kit For Solar PV Panel
92.	Institute of Engineering &	Prof. Dibakar Roy Choudhury	Basic Science & Humanities	Good health and Well-Being	SteadyStride: Empowering Lives with Wearable Anti-Tremor Bands



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	Management , Kolkata				
93.	Bajaj Institute of Technology, Wardha	Dr. Prathik Kulkarni	Civil Engineering	Industry, Innovation, and Infrastructure	Technological solution for safe disposal of menstrual waste
94.	Anjuman Polytechnic Sadar, Nagpur	Mohammad Shafiquddin	Electronics & Telecommunication	Good health and Well-Being	Temprate
95.	Builders Engineering College, Kangayam, Tiruppur(Dt.) , Tamilnadu.	Ms. G.Vijayakumari	ECE	Sustainable Cities and Communities, Artificial Intelligence at the Edge	Transforming Waste Management: Innovating Garbage Segregation and Transportation with AI Technology
96.	Ajay Kumar Garg Engineering College, Ghaziabad	Dr. Jitender Chhabra	Electronics and Communication Engineering	Good health and Well-Being	UWEFLUSH - AN AUTOMATIC TOILET SEAT-TOP CLEANER
97.	Vellore Institute of Technology, Chennai	Suganya R	SCOPE	Good health and Well-Being, Artificial Intelligence at the Edge	Vocalysis
98.	BVRIT Hyderabad College of Engineering for women	Mr. N.M. Sai Krishna Kumar, Mr. R. Priyakanth	Electronic and communication Engineering	Good health and Well-Being, Industry, Innovation, and Infrastructure, Artificial Intelligence at the Edge	VR Eye Q
99.	Rajeev Gandhi Memorial College of Engineering & Technology, Nandyal	Dr. P. V. GOPI KRISHNA RAO	Electronics and Communication Engineering	Good health and Well-Being	Wearable Posture Monitoring System (WPMS)
100.	JANSONS INSTITUTE OF TECHNOLOGY	P.Eswari	Electronics and Communication Engineering	Industry, Innovation, and Infrastructure, Sustainable Cities and Communities	Weather Adaptive Intelligent Street Lighting System with Automatic Fault Management Using STM32 NUCLEO Platform.