



VALLURUPALLI NAGESWARA RAO VIGNANA JYOTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

An Autonomous, ISO 9001:2015 & QS I-Gauge Diamond Rated Institute, Accredited by NAAC with 'A++' Grade
NBA Accreditation for B.Tech. CE,EEE,ME,ECE,CSE,EIE,IT,AME, M.Tech. STRE, PE, AMS, SWE Programmes
Approved by AICTE, New Delhi, Affiliated to JNTUH, NIRF (2023) Rank band:101-150 in Engineering Category
College with Potential for Excellence by UGC, JNTUH-Recognized Research Centres:CE,EEE,ME,ECE,CSE Vignana Jyothi
Nagar, Pragathi Nagar, Nizampet (S.O.), Hyderabad – 500 090, TS, India.
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Granted Patents (24)

S.No	Patents Title
1.	A System for Analyzing Risk Associated with Cough Sounds
2.	Stabilization Device for Two Wheeler
3.	Fabrication of eco-friendly organic ferroelectric diisopropy lammonium bromide films
4.	Collaborative Federative Learning Approach for Internet of Vehicles Traffic Prediction
5.	Automated Real – Time Driving Behavioral Modeling Analysis and Reporting in Denser Traffic Using Data Mining
6.	A smart and automated Bedridden Patient Monitoring system over the cloud
7.	An automated thermal Scanner with speech recorder and an alert system to avoid the touch thereof
8.	ELSM- Quantum Computing: Extremely Large Databases Store into A Small Memory Using Quantum Computing
9.	An apparatus and method for remotely monitoring an aquatic animal and classification thereof
10.	An IOT Based LPG Cylinder Warehouse Monitoring System Along with Bookkeeping of Refilling of Cylinders
11.	MachineLearning Based Network Intelligentization for Automatically Configurable Cellular Communication Systems
12.	System and Method for Diagnosis of Diseases from Medical Images
13.	An Intelligent and Intuitive Signaling System for Motor Vehicles to Minimize Road Accidents
14.	Development of megawatt wind turbine for optimal management of smart agricultural farms
15.	A Process of Preparing Activated Deoiled Cakes of Karanja for Treatment of Textile Wastewater
16.	System and method for diagnosis of diseases from medical images
17.	Fabrication of polymer based Nano Composite Roof sheets
18.	System and Method to Generate Time-Profiled Temporal Pattern Tree
19.	IoT Based Smart Electrical Power Plug

20.	Non-contact nanostructure and method of manufacturing the same for fouling free solar desalination
21.	A Wire-Less System to Reliably Control A Large Network of Street Lighting Systems From A Central Location Through Fm Broadcast
22.	An Integrated Computing System and A Process to Generate The Driver Safety Index for Preventing Automobile Accidents
23.	Automatic Airlock Prevention System and Method Thereof
24.	A Dc-to-Dc Converter Configuration by Soft Switching Devices



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Patents at various stages (101)

S.No.	Patents Title
1	A Passive Filter Configuration to Reduce the Produced by Non-Linear Loads
2	System and Method for Generating Magnetic Power and Converting into An Alternative Energy
3	Air-Conditioned Helmet
4	Instrumented Methods for Smart Operations
5	Instrumented Methods for Smart Operations
6	Method and System for Soil Classification
7	An Arrangement to Increase the Level of Liquids.
8	An Apparatus for Making a Flat Edible Food
9	Fuel Indicator and Global Fuel Pump Detection System
10	ISPSD-System: Internal Smart Pollution Control Display System.
11	Horizontal Axis, Cam guided, Telescopic blade, Yaw Controlled Windmill
12	P-Button: Panic Button Provides Information Through Light, Radio Signal and Other Required Signal
13	DIC Based Rapid Condition Assessment System for Structural Health Monitoring Using QR Code Based Speckle Pattern
14	A Novel Pixel Based Method for Satellite Image Classification
15	Recovery Process of Metals from Printed Circuit Boards (PCBS) UsingacidiphilumacidophilumBacteria
16	IOT-Traffic System: IOT Based Intelligent Traffic, Transport Management System
17	Cloud Parking Management System and Vehicle Anti-Theft Method
18	Geo Composite Liner Systems
19	Design for Earthquake load modelling using Critical Excitation Method
20	Recovery Process of Metals from Printed Circuit Boards (PCBS) Using Acidithiobacillusferrooxidans Bacteria.
21	Brain Computer Interface (BCI) Based System and Method for Characterizing Behavior State of a Subject
22	System and Method of Planting and Breeding-Based Internet of Things with Cloud Service and Service Flow Method In Agriculture

23	Vigya: A Novel Integral System for Precision Agriculture
24	Device for Connecting Computers
25	Computer Cache Memory Performance Enhance using Neural Networks and Machine Learning
26	Electric Power Is Generated by Using the Thermal Energy of an Exhaust Gas in a Crematory
27	Critical Patients' Monitoring Device: Critical Patients 'Monitoring using Machine Learning Feature Selection Technique
28	Cloud Attenuation System and Method to Provide Cloud Attenuation Statistics and Atmospheric Absorption Coefficient
29	GPS Live Vehicle Tracking and Speed Control
30	An Air Gesture Based System for Communic- AtingBetween Multiple IOT Device
31	A Proficient Method for Categorical Data Clustering
32	IML- Traffic Prediction: Intelligent Traffic Prediction using Machine Learning.
33	Dart (Depression and Related Tracker): Identification System to find and Prevent Depression Tendencies of Women
34	Abie-Voting System: Aadhaar and Blockchain Intelligent Electronic Voting System
35	Cloud Sharing System: Cloud Computing Information Sharing System in Real Time
36	Fake News Analysis using Machine Learning and Updateable Neural Analysis
37	Recovery Process of Metals from Printed Circuit Boards (PCBS) Using <i>N. Bacteria</i> .
38	Recovery Process of Metals from Printed Circuit Boards (PCBS) using <i>Acidithiobacillusthiooxidans</i> Bacteria.
39	Recovery Process of metals from printed circuit boards (PCBS) using <i>Thiobacillusnovellus</i> bacteria.
40	Sheltered Driving System for Automotive Vehicles for Streamlined Operation On Roads with Adherence to Extant Rules and Regulations
41	Hotspot Prediction System for Covid-19 Pandemic
42	IUML-Stock Prices Predictor: Intelligent Stock Prices Predictor using Machine Learning
43	ICDN- Object Detection System: Intelligent Object Detection System with Image Classification and Deep Neural Networks.
44	Asp: Crime Site Analysis: Automatic Method and Process of Performing Crime Site Analysis and Management System
45	Transparent and User-Friendly Billing Process towards Smart Governance
46	AWS - Cloud Data Performance Increased Using Machine Programming
47	A Novel Security Framework Integrated with LMS for Software Security
48	Self-Excited Synchronous Generator (SESG) without D.C Excitation
49	Method and Circuit for Operating Oewim using Dual Inverter fed with Modulated Carrier Based DPWM
50	Motorized Ankle Foot Driven Customized Prosthetic Leg with Exoskeleton
51	System and Method of Intelligent Coffee Vending Machine
52	Design & Development of An Intelligent System to Analyze The Impact of COVID-19 On Respiratory System Using Machine Learning

53	Method for Characterization of A Subjects Attention and Mediation Using Brain Computer Interface for Real Time Healthcare Monitoring
54	Virtual Mom Responsive Baby Monitoring toy
55	Multi-Branch Resonant Converter Based DC Power Supply for Diversified Applications
56	Method and Implementation for Mitigating Voltage Sag and Swell In Distributed System with Under Voltage/ Over Voltage Relay Based Compensators
57	A Novel Machine Learning tool and Approach / Method for Telugu Dependency Parsing Using Combinatory Categorical Grammar
58	GPS and Encryption Based Multi-Check Authentication Process for Preventing Fraud Transaction
59	An Arrangement to Enhance the Tissue Engineering and Other Lively Processes to Enhance Life
60	Development of Smart Walking Stick for Visually Impaired People
61	Evaluation of Thrust force and torque In Drilling of Natural Fiber Particle Reinforced Polymer.
62	Development of bismuth borate glasses co-doped with small concentrations of manganese oxide and zirconium oxide nanoparticles suitable for luminescent materials
63	OPTICAL PARAMETERS OF GALLIUM NITRIDE DOPED FERRITE POLYPYRROLE NANOCOMPOSITES
64	Device and method to measure active earth pressure of back-to-back mechanically stabilized earth walls
65	A SYSTEM BASED ON BIG DATA ANALYTICS FOR HR MANAGEMENT AND STAFFING PROJECTS OF AN ORGANIZATION
66	TPM- Crowdfunding: Trusted Crowdfunding Platform Using a Smart Contract and AI- Based Management System
67	An Artificial Intelligence (AI) and Internet of things (IoT) based Integrated Approach for COVID-19 Prevention
68	Smart Women Anti-Violence Device
69	Submerged nanoporous micro hotspot structure for solar desalination and method of preparation
70	A series capacitive compensation technique with design based iterative algorithm for mitigation of Ferranti effect in EHV and UHV power transmission systems
71	Method for prediction of Angina Pectoris based on the user input or dataset
72	Piled Embankment Reinforcement Systems
73	Method for Prediction of embankment failure on soft fossils
74	Eco-friendly solar desalinators
75	Solar powered Desalination System
76	AI and IoT based Miniature Circuit Breaker
77	AI based prediction model method for the compressive strength of geopolymers concrete
78	Multi-Tasking Horticulture Vehicle
79	AI and NLP system for automatic generation of multilingual minutes of the meeting
80	Drill Cabin System for Safe Driving
81	Solar Desalination System Using CeO ₂ -Mwnt Hybrid Nanofluid
82	Security system for women safety and real-time monitoring

83	AI based device to prevent early cervical spondylosis among computer users
84	OCR and deep learning-based plagiarism detection device for Telugu Language
85	Crop recommendation and disease prediction system
86	A Design for feature selection and optimized hyperparameter tuning for machine learning model
87	Improved distillate using cerium oxide nanofluid in solar-powered. desalination
88	Design automation of CMOS analog circuits using SCA-mGWO algorithm
89	Wi-fi-enabled anti-theft system with biometric authentication in fuel-filling stations
90	IOT-based RO water purifier with auto TDS control
91	Knowledge-based method to recommend suitable crops for soils with Identified nutrient deficiencies
92	Reactive power design for delta connected capacitor bank to self-excited Asynchronous generator
93	Efficient prime bit Vedic multiplier for double precision floating point numbers
94	Knowledge-based intelligent system for design thinking
95	Heat absorber for solar desalination
96	Floating absorber for solar still
97	Real-time health and environment monitoring system for underground coal mining workers
98	Patient obligation perceiving system using eye gestures
99	Child safety lock for scooter throttle
100	Quick set non-cement brick
101	Implementation of machine learning and data science in the process of making financial decision