



MALLA REDDY ENGINEERING COLLEGE FOR WOMEN

(Autonomous Institution-UGC, Govt. of India)
Accredited by NAAC with 'A+' Grade | Programmes Accredited by NBA
NIRF Institutional Ranking 2025 – Rankband(201-300), MHRD, Govt. of India
Approved by AICTE, Affiliated to JNTUHH, ISO 9001:2015 Certified Institution
Maisammaguda, Dhulapally, Secunderabad 500100.



DEPARTMENT OF CSE(AIML)

PATENT DETAILS (A.Y 2025-26)

SI NO	FACULTY NAME	PATENT TITLE	APPLICATION NUMBER	DATE OF APPLICATION/ PUBLICATION	UTILITY PATENT/ DESIGN
1	Dr. NARENDHAR MULUGU	AI driven Cyber Security :real time threat detection and automated	202541108379 A	8/11/25	Utility Patent
2	Dr. NARENDHAR MULUGU	AI powered cyber security threat detection and autonomous	202541089188A	17/10/25	Utility Patent
3	Dr. NARENDHAR MULUGU	SYSTEM AND METHOD FOR LOCATION-BASED CRIME	202641014605 A	20/02/2026	Utility Patent
4	Dr. NARENDHAR MULUGU	A SELF-OPTIMIZING SOFTWARE-DEFINED NETWORKING	202541115745 A	12/12/2025	Utility Patent
5	Dr.T.SRIKANTH	Artificial Intelligence Driven system for Fault Diagnosis and	202541100473 A	28/11/2025	Utility Patent
6	Dr.T.SRIKANTH	Adaptive Machine Learning Framework for Dynamic Cloud	202541108652 A	28/11/2025	Utility Patent
7	Dr.T.SRIKANTH	BIG DATA ANALYTICS SERVER MACHINE FOR CLOUD COMPUTING	476354-001	2/13/2026	Design Patent
8	Dr.T.SRIKANTH	SYSTEM AND METHOD FOR CONTENT-AWARE DNA-BASED	202641014603 A	20/02/2026	Utility Patent
9	Dr.T.SRIKANTH	AN IOT-BASED BLOOD PRESSURE MONITOR FOR CONTINUOUS CARE	202541116181 A	12/12/2025	Utility Patent
10	Dr.N.VINAYA KUMARI	SYSTEM AND METHOD FOR REAL-TIME RANSOMWARE DETECTION	202641014601 A	20/02/2026	Utility Patent
11	Dr.N.VINAYA KUMARI	AN ULTRASONIC PARTICLE DISPERSER APPARATUS FOR	202541115469 A	05/12/2025	Utility Patent
12	Dr.MALLIGA THULASIRAMAN	SYSTEM AND METHOD FOR DNA-BASED MEDICAL IMAGE	202641015137 A	20/02/2026	Utility Patent
13	Dr.MALLIGA THULASIRAMAN	SYSTEM AND METHOD FOR CRICKET BALL TRAJECTORY	202641017988 A	27/02/2026	Utility Patent
14	Dr. VAMSI KRISHNA MANAM	AI driven Cyber Security :real time threat detection and automated	202541108379 A	8/11/25	Utility Patent
15	Dr. VAMSI KRISHNA MANAM	AI powered cyber security threat detection and autonomous	202541089188A	18/9/25	Utility Patent
16	Dr. VAMSI KRISHNA MANAM	SYSTEM AND METHOD FOR LOCATION-BASED CRIME	202641014605 A	20/02/2026	Utility Patent
17	Dr. SRINIVAS YADLAPATY	AI powered cyber security threat detection and autonomous	202541089188A	18/9/25	Utility Patent
18	Dr SRINIVAS K	SYSTEM AND METHOD FOR CONTENT-AWARE DNA-BASED	202641014603 A	20/02/2026	Utility Patent
19	Dr. SUMAIYA SAMREEN	Federated Machine Learning for Privacy-Preserving Distributed	202541108642 A	28/11/2025	Utility Patent
20	Dr. SUMAIYA SAMREEN	Real-Time Anomaly Detection Framework in Dynamic Data	202641000845	1/5/2026	Utility Patent
21	Dr. SUMAIYA SAMREEN	SYSTEM AND METHOD FOR REAL-TIME RANSOMWARE DETECTION	202641014601 A	20/02/2026	Utility Patent
22	Dr. SHIVANI BHASGI	Energy-Aware AI Scheduling System for Smart Campuses and	6467685	2025-09-08	Design Patent
23	Dr. SHIVANI BHASGI	Adaptive Machine Learning Framework for Dynamic Cloud	202541108652 A	28/11/2025	Utility Patent
24	Dr. SHIVANI BHASGI	Energy-Aware AI Computer Device for Smart Campuses and	6467685	8/24/2025	Design Patent



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25	Dr. SHIVANI BHASGI	A Deep Learning Framework Using Bio Inspired Algorithms for	202541065426	2025-07-18	Utility Patent
26	Dr. SHIVANI BHASGI	SYSTEM AND METHOD FOR REAL-TIME RANSOMWARE DETECTION	202641014601 A	20/02/2026	Utility Patent
27	Dr.CHINTHAMANEN I VIJAYALAKSHMI	SYSTEM AND METHOD FOR DYNAMIC PRICE NEGOTIATION	202641015138 A	20/02/2026	Utility Patent
28	Dr.CHINTHAMANEN I VIJAYALAKSHMI	SYSTEM AND METHOD FOR CRICKET BALL TRAJECTORY	202641017988 A	27/02/2026	Utility Patent
29	Dr.DESHOJU VEMANA CHARY	SYSTEM AND METHOD FOR DYNAMIC PRICE NEGOTIATION	202641015138 A	20/02/2026	Utility Patent
30	Dr.DESHOJU VEMANA CHARY	SYSTEM AND METHOD FOR CRICKET BALL TRAJECTORY	202641017988 A	27/02/2026	Utility Patent
31	Dr J. SRIKANTH	AI-Enabled low Power architecture for next generation IOT devies	202541085131	2025-08-09	Utility Patent
32	Dr J. SRIKANTH	Federated Machine Learning for Privacy-Preserving Distributed	.202541108642 A	28/11/2025	Utility Patent
33	Dr J. SRIKANTH	SYSTEM AND METHOD FOR REAL-TIME RANSOMWARE DETECTION	202641014601 A	2/20/2026	Utility Patent
34	Dr. P.RAJ KUMAR	AI AND ML BASED SMART DRONE FOR EMERGENCY MEDICAL	6448976	8/7/2025	Design Patent
35	Dr. P.RAJ KUMAR	SYSTEM AND METHOD FOR STATIC SOURCE CODE VULNERABILITY	202641015136 A	20/02/2026	Utility Patent
36	Dr. P.RAJ KUMAR	AI BASED DEVICE FOR BACTERIAL DETECTION ON TONGUE (Design	484150-001	17/12/202	Design Patent
37	Dr. P.RAJ KUMAR	MACHINE LEARNING -ENABLED IOT AND 6G FRAMEWORKFOR	202541104107 A	28/11/2025	Utility Patent
38	Dr. Y.SRINIVAS	SYSTEM AND METHOD FOR DYNAMIC PRICE NEGOTIATION	2641015138 A	20/02/2026	Utility Patent
39	Dr. Y.SRINIVAS	AI-powered cybersecurity threat detection and autonomous	202541089188 A	17/10/2025	Utility Patent
40	Dr. Y.SRINIVAS	SYSTEM AND METHOD FOR CONTENT-AWARE DNA-BASED	202641014603 A	2/20/2026	Utility Patent
41	Dr. JAKKULA PREMASAGAR	A VISUAL PROGRAMMING INTERFACE DESIGNED FOR NON-	202541115708 A	12/5/2025	Utility Patent
42	Ms. NAGA LAKSHMI P	AI based drug waste management device(design grant)	6441213	08/06/2025	Design Patent
43	Ms. NAGA LAKSHMI P	Adaptive Machine Learning Framework for Dynamic Cloud	202541108652 A	28/11/2025	Utility Patent
44	Ms. NAGA LAKSHMI P	SYSTEM AND METHOD FOR VISUALIZING CLIMATE THREATS	541014602 A	20/02/2026	Utility Patent
45	Ms. MAMILLA MAHESWARI	Adaptive Machine Learning Framework for Dynamic Cloud	202541108652 A	28/11/2025	Utility Patent
46	Ms. MAMILLA MAHESWARI	AI-Driven Energy Optimization Techniques for Sustainable Data	202541108643 A	28/11/2025	Utility Patent
47	Ms. MAMILLA MAHESWARI	SYSTEM AND METHOD FOR VISUALIZING CLIMATE THREATS	202641014602 A	20/02/2026	Utility Patent
48	Ms. MAHITHA DILLI	Adaptive Machine Learning Framework for Dynamic Cloud	202541108652 A	28/11/2025	Utility Patent
49	Ms. MAHITHA DILLI	SYSTEM AND METHOD FOR VISUALIZING CLIMATE THREATS	202641014602 A	20/02/2026	
50	Mrs. VENKATA PERURI SOWJANYA	AI Powered cybersecurity threat detection and autonomous	202541089188 A	18/09/2025 / 17/10/2025	UTILITY PATENT
51	Mrs. VENKATA PERURI SOWJANYA	SYSTEM AND METHOD FOR GLOBAL EDUCATION FINANCING	202641014604 A	20/02/2026	Utility Patent



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52	Mr Kalyan Chakravarthi	SYSTEM AND METHOD FOR AI-DRIVEN EMBRYO SEGMENTATION	202641015135 A	20/02/2026	Utility Patent
53	Mr Kalyan Chakravarthi	SYSTEM AND METHOD FOR EXPLAINABLE PLANT DISEASE	202641018319 A	2/27/2026	Utility Patent
54	Mr Kalyan Chakravarthi	A REAL-TIME THREAT INTELLIGENCE SHARING	202541115737 A	12/12/2025	Utility Patent
55	Mr.CH. SANDEEP REDDY	AI-DRIVEN INSIGHTS: INTERGRATING DEEP LEARNING	202541044437	30/5/2025	Utility Patent
56	Mr.CH. SANDEEP REDDY	SYSTEM AND METHOD FOR EXPLAINABLE PLANT DISEASE	202641018319 A	2/27/2026	Utility Patent
57	Mr. KUMAR MANISH SINHA	AI powered cyber security threat detection and autonomous	202541089188A	18/9/25	Utility Patent
58	Mr. KUMAR MANISH SINHA	SYSTEM AND METHOD FOR GLOBAL EDUCATION FINANCING	202641014604 A	20/02/2026	Utility Patent
59	Mrs. LAHARI GOLLAMUDI	Federated Machine Learning for Privacy-Preserving Distributed	202541108642 A	28/11/2025	Utility Patent
60	Mrs. LAHARI GOLLAMUDI	SYSTEM AND METHOD FOR GLOBAL EDUCATION FINANCING	202641014604 A	20/02/2026	Utility Patent
61	Mr. VINAYAGAN SUYAMBU	ARTIFICIAL INTELLIGENCE BASED SKIN CANCER DETECTION DEVICE	6437881	28 April 2025	Design Patent
62	Mr. VINAYAGAN SUYAMBU	AI-Enabled Stress Monitoring and Alert Device	6438984	30 April 2025	Design Patent
63	Mr. VINAYAGAN SUYAMBU	Energy_efficient computing systems for sustainable digital infrastructure	202541089344 A	17/10/2025	Utility Patent
64	Mr. VINAYAGAN SUYAMBU	CREATING A VIRTUAL DIGITAL TABLE FOR A CONFERENCE	202541035449 A	09/05/2025	Utility Patent
65	Mr. VINAYAGAN SUYAMBU	SYSTEM AND METHOD FOR GLOBAL EDUCATION FINANCING	202641014604 A	20/02/2026	Utility Patent
66	Mr. SUNDEEP NOOKA	Federated Machine Learning for Privacy-Preserving Distributed	202541108642 A	28/11/2025	Utility Patent
67	Mr. SUNDEEP NOOKA	SYSTEM AND METHOD FOR RANSOMWARE READINESS	202641015134 A	20/02/2026	Utility Patent
68	Mr. PERLA RAMESH BABU	Federated Machine Learning for Privacy-Preserving Distributed	202541108642 A	28/11/2025	Utility Patent
69	Mr. PERLA RAMESH BABU	SYSTEM AND METHOD FOR RANSOMWARE READINESS	202641015134 A	20/02/2026	Utility Patent
70	Mr V SRINIVAS	SYSTEM AND METHOD FOR AI-DRIVEN EMBRYO SEGMENTATION	202641015135 A	20/02/2026	Utility Patent
71	Ms V MOUNICA	SYSTEM AND METHOD FOR AI-DRIVEN EMBRYO SEGMENTATION	202641015135 A	20/02/2026	Utility Patent
72	Ms. PRIYA PACHOURI	AI powered cyber security threat detection and autonomous	202541089188A	17/10/2025	Utility Patent
73	Ms. PRIYA PACHOURI	SYSTEM AND METHOD FOR STATIC SOURCE CODE VULNERABILITY	202641015136 A	20/02/2026	Utility Patent
74	Ms. HOYALA JATABOINA	Energy_efficient computing systems for sustainable digital infrastructure	202541089344 A	17/10/2025	Utility Patent
75	Mr. CHANDRARAO MERLA	AI-Driven Insights: Integrating Deep Learning and Machine	202541044437	30-05-2025	Utility Patent
76	Mr. CHANDRARAO MERLA	AI driven Cyber Security :real time threat detection and automated	202541108379 A	8/11/25	Utility Patent
77	Mr. CHANDRARAO MERLA	Self Supervised Learning Techniques for Real-Time	202541108646	28/11/2025	Utility Patent
78	Mr. CHANDRARAO MERLA	Edge-Computing Architectures for AI Inference in IoT and Smart	202541123380	1/2/2026	Utility Patent



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79	Mr. CHANDRARAO MERLA	Enhanced Anomaly Detection in Cyber-Physical Systems via	202541074252	9/5/2025	Utility Patent
80	Mr. CHANDRARAO MERLA	Enhanced Anomaly Detection in Cyber-Physical Systems via	202541074252	22-08-2025	Utility Patent
81	Mr. CHANDRARAO MERLA	SYSTEM AND METHOD FOR STATIC SOURCE CODE VULNERABILITY	202641015136 A	20/02/2026	Utility Patent
82	Mr. ANIL JAWALKAR	AI AND ML BASED SMART DRONE FOR EMERGENCY MEDICAL	6448976	06 August 2025	Design Patent
83	Mr. ANIL JAWALKAR	SYSTEM AND METHOD FOR DNA-BASED MEDICAL IMAGE	202641015137 A	20/02/2026	Utility Patent
84	Mr CH SANDEEP REDDY	AI-DRIVEN INSIGHTS: INTERGRATING DEEP LEARNING	202541044437	30/5/2025	UTILITY PATENT
85	Mr CH SANDEEP REDDY	SYSTEM AND METHOD FOR DNA-BASED MEDICAL IMAGE	202641015137 A	20/02/2026	Utility Patent
86	Mr. S.MANISH KUMA	AI-powered cybersecurity threat detection and autonomous	202541089188 A	17/10/2025	Utility Patent
87	Ms. HOYALA J	energy efficient computing systems for sustainable digital infrastructure	20541089344A	17/10/2025	Utility Patent
88	Ms. HOYALA J	SYSTEM AND METHOD FOR STATIC SOURCE CODE VULNERABILITY	202641015136 A	20/02/2026	Utility Patent
89	Ms. KOPPULA SIREESHA	SYSTEM AND METHOD FOR VISUAL TIMELINE GENERATION AND	202641015139 A	20/02/2026	Utility Patent
90	B.SITARAMI REDDY	SYSTEM AND METHOD FOR AI-DRIVEN EMBRYO SEGMENTATION	202641015135 A	20/02/2026	Utility Patent
91	B.SITARAMI REDDY	A DEEP LEARNING PLATFORM FOR BIAS DETECTION AND	.202541115705 A	12/5/2025	Utility Patent
92	Ms THOTAKOORA SWATHI	SYSTEM AND METHOD FOR DYNAMIC PRICE NEGOTIATION WITH SENTIMENT-AWARE AI CHATBOT	202641015138 A	20/02/2026	Utility Patent
93	Ms. RAMA KRISHNA SARMA A	SYSTEM AND METHOD FOR DYNAMIC PRICE NEGOTIATION WITH SENTIMENT-AWARE AI CHATBOT	202641015138 A	20/02/2026	Utility Patent
94	Ms DIDI SARITHA	SYSTEM AND METHOD FOR REAL-TIME DRIVER FATIGUE	202641016469 A	2/20/2026	Utility Patent
95	Ms DIDI SARITHA	SYSTEM AND METHOD FOR CRICKET BALL TRAJECTORY	202641017988 A	27/02/2026	Utility Patent
96	Ms. NAGA LAKSHMI PANCHAKATLA	A LATENCY-AWARE LOAD BALANCING PROTOCOL FOR	202541115466 A	05/12/2025	Utility Patent



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Department of Computer Science and Engineering

Faculty Patents for the Academic Year 2024-2025

S.No	Name of the faculty	Patent Title	Application No	Date of Application Filled	Date of Application Published/ Granted
1	Dr. VENKATA KUNAPAREDDY NAGANJANEYULU	Application Of Machine Learning In Smart Grid Energy Management Systems	202441083935 A	11/3/2024	Published 08-11-2024
2	Dr. VISHNU KUMAR MISHRA	Ai Based Crime Scene Analyzing Device	430639-001	16/09/2024	Published 15-11-2024
3	Dr. VISHNU KUMAR MISHRA	IoT Based Device To Check Nutrient Of Soil	432459-001	1/10/2024	Published 27-12-2024
4	Dr.A.SWARUPA RANI	Home Appliances Controlling Hub With Touchscreen	424959-001	27/07/2024	Published 27-09-2024
5	Mr. RANADHEER VALLEM	Ai Based Device To Identify	424751-001	5/20/2024	Published 20-09-2024
6	Dr GEETHA REDDY.Y	Machine Learning Algorithms For Real-Time Data Processing In Autonomous Systems"	202441083317	10/30/2024	Published 11/8/2024
7	Ms.A.RADHA RANI	A System And Application For A Mixed Method Approach To Make Vs Buy Decision Software	202441083317	10/30/2024	Published 11/8/2024
8	Ms.P.HARSHA	A System And Application For A Mixed Method Approach To Make Vs Buy Decision Software	202441083317	10/30/2024	Published 11/8/2024
9	K.AARTHI	A System And Application For A Mixed Method Approach To Make Vs Buy Decision Software	202441083317	10/30/2024	Published 08-11-2024
10	Dr SMITHA	A System And Application For A Mixed Method Approach To Make Vs Buy Decision Software	202441083317	10/30/2024	Published 08-11-2024
11	Mr.G PRABHAKAR	A System And Application For A Mixed Method Approach To Make Vs Buy Decision Software	202441080355	10/20/2024	Published 10/25/2024
12	Mr B V S P PAVAN KUMAR	A System And Method Of Development Process In Reuse-Based Agile For Drone Software Systems	202441081544	10/20/2024	Published 10/25/2024
13	Mr G BHANU PRASAD	A System And Method Of Smart Parking And Reservation System With Scanning Applications	202441081544	10/20/2024	Published 10/25/2024
14	Mr K.V RAJESH	A System And Method Of Smart Parking And Reservation System With Scanning Applications	202441081544	10/20/2024	Published 10/25/2024

S.No	Name of the faculty	Patent Title	Application No	Date of Application Filled	Date of Application Published/ Granted
15	Mr S VENKATA RAMANA	A System And Method Of Smart Parking And Reservation System With Scanning Applications	202441081544	10/20/2024	Published 10/25/2024
16	Dr C.V.P.R PRASAD	A System And Method Of Smart Parking And Reservation System With Scanning Applications	202441081544	10/20/2024	Published 10/25/2024
17	Mr G BHANU PRASAD	System and Methodology For Secure And Efficient Electronic Health Record Sharing in Blockchain-Based Cloud Environments	202441104094	28/12/2024	Published 10/25/2024

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Department of Computer Science and Engineering

Faculty Patents / Design Patent : Academic Year 2023-24

S.No	Name of the faculty	Patent Title	Application No	Date of Application Filled	Date of Application Published/ Granted
1	Dr. KALPANA GUDIKANDULA	Wild Horse Optimization Algorithm Based Deep Learning Model For Automated Gesture Recognition For Visually Challenged People	202441044434 A	6/8/2024	Published : 14-06-2024
2	Ms. SRILAVANYA SAJJA	Black Widow Optimization Algorithm for Detecting Brain Tumour using Magnetic Resonance Image Segmentation	202441040742 A	5/25/2024	Published 31-05-2024
3	Ms. SOMASHEKHAR SANJEEVINI	AI based heart disease prediction device	6324120	4/11/23	Grant : 15-Nov-23