

THOTA JYOTHI KUMARI CV

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Institution [Chaitanya Engineering College]
Date of Birth [28/04/1997]
Gender (M/F/T) [FEMALE]
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Academic Qualifications (Undergraduate Onwards)

Degree	Year	Subject	University/Institution	%/CGPA
B.TECH	2018	ECE	Avanthi St Theresa College of Engineering Garividi	68%
M.TECH	2023	VLSI	Avanthi St Theresa College of Engineering Garividi	69 %

Work Experience (Chronological Order)

S.No	Position	Institute	From	To
1	Assistant Professor	Avanthi St Theresa College of Engineering Garividi	18-01-2021	26-06-2023
2	Assistant Professor	Chaitanya Engineering College Vishakhapatnam	03-07-2023	till date

Publications

S.No	Authors	Title	Journal	Volume/Page	Year
1	T.Jyothi Kumari, L.Varaprasad	Optimized Analysis Reversible Vedic Multipliers for High Speed Low Power Operations	International of Techo Engineering	Volume-12 Pg no:376-383	2022
2	T.Jyothi Kumari, P.Rohit, D.Somasekhar	Advanced Vehicle Security System Using Biometric Visuals	International Journal of Creative Research Thoughts (IJCRT)	Volume-12, pg no: 376-383	2024

3	T.Jyothi Kumari P.Rohit, V.Pavani	GAN Algorithm Using Image Segmentation Of Brain Cancer Of MRI Images Using GLCM Features	International Journal of Scientific Development and Research (IJS DR)	Volume-9, pg no: 997-1005	2024
4	T.Jyothi Kumari, P.Rohit, V.Pavani	Global Positioning System Based Train Accident Prevention & Prediction System	TIJER - INTERNATIONAL RESEARCH JOURNAL	Volume-10, pg no: 490-496	2024
5	T.Jyothi Kumari, P.Rohit, V.Pavani	Early Detection Of Melonama In Skin Cancer Using Probabilistic Neural Networks	International Journal of Novel Research and Development (IJNRD)	Volume-9 pg no: 592-600	2024
6	T.Jyothi Kumari, P.Rohit, V.Pavani, Dr.M.Satyanarayana	Design Of Fractal Wideband Antenna By Using Wind Driven Optimization	International Research Journal of Engineering and Technology (IRJET)	Volume-11, pg no: 435-440	2024
7	T.Jyothi Kumari, P.Rohit, V.Pavani	Innovative Approaches To Enhance Breast Cancer Detection Using Machine Learning And Image Processing	OFFICIAL JOURNAL OF THE INDIAN PATENT OFFICE	Application No.202431051142 A ISSUE NO. 28/2024	2024
8	T.Jyothi Kumari, P.Rohit, D.Rajitha, V.Pavani,	Design of Quasi Modified Rectangular Patch Antenna By Using Ultra Wideband (UWB) Frequency For Radar Communications	Journal of Systems Engineering and Electronics	Volume-34, pg no: 515-518	2024
9	T.Jyothi Kumari, P.Rohit, V.Pavani	Improved Bank Safety Alert System Integrated With GSM Technology	International Journal of All Research Education and Scientific Methods (IJARESM)	Volume-12, pg no:2915-2923	2024
10	T.Jyothi Kumari, P.Rohit, D.Rajitha, V.Pavani	Future Trends In Design Of Metamaterial Printed Antennas By Using 5G Applications	Journal For Basic Sciences	Volume-24, pg no:133-145	2024
11	T.Jyothi Kumari,	Design of UWB	Kronika Journal	Volume-24,	2024

	P.Rohit, D.Rajitha, V.Pavani	Fractal Monopole Antenna By Using Differential Evolution Algorithm		pg no:133-145	
12	T.Jyothi Kumari, P.Rohit, V.Pavani, N.Sivaleela	Voice Controlled Personal Assistant Robot For Smart Appliances By Using Raspberry- Pi	Journal of Emerging Technologies and Innovative Research (JETIR)	Volume-11, pg no:574-579	2024
13	T.Jyothi Kumari, P.Rohit, V.Pavani, N.Sivaleela	Unveiling Personnel Tension Disorder Using Machine Learning Algorithms	International Journal of Creative Research Thoughts (IJCRT)	Volume-13, pg no: 66-75	2025
14	T.Jyothi Kumari, P.Rohit, D.Rajitha, V.Pavani	Design Of Frequency Reconfigurable Slotted Antenna By Using Teaching Learning Based Optimization Algorithm	International Research Journal of Engineering and Technology (IRJET)	Volume-12, pg no: 126-131	2025
15	T.Jyothi Kumari, P.Rohit, V.Pavani, N.Sivaleela, S.Tejeswararao	Refinement Of OFDM Based Integrated Radar Communication System By Using Kookaburra Optimization Algorithm (KOA)	Journal of Emerging Technologies and Innovative Research (JETIR)	Volume-12, pg no: 168-175	2025
16	T.Jyothi Kumari, P.Rohit, V.Pavani, G. Kusuma, S.Bhanuprakash	Enhancing Multiband Fractal Antenna Design Through Green Anaconda Optimization (GAO)	Journal of Emerging Technologies and Innovative Research (JETIR)	Volume-12, pg no: 366-372	2025
17	T.Jyothi Kumari, P.Rohit, D.Rajitha, V.Pavani, T.Viswanadharaju	Performance Enhancement Of Multiband Cylindrical Dielectric Resonator Antenna By Using Honey Badger Algorithm (HBA)	International Journal of Creative Research Thoughts (IJCRT)	Volume-13, pg no: 203-211	2025
18	T.Jyothi Kumari, P.Rohit,	Mitigating Mutual Coupling In	International Journal of Creative	Volume-13, pg no: 836-845	2025

	D.Rajitha, V.Pavani, P.Rajesh	Metamaterial Antenna With Circular Complimentary Ring Resonators Via Giza Pyramids Construction Algorithm (GPCA)	Research Thoughts (IJCRT)		
19	T.Jyothi Kumari, P.Rohit, V.Pavani, N.Sivaleela, L.Varaprasad	Internet Of Things Enabled Prenatal Care Monitoring For Expecting Mothers	TIJER - INTERNATIONAL RESEARCH JOURNAL	Volume-12, pg no: 361-368	2025
20	T.Jyothi Kumari, P.Rohit, V.Pavani, D.Rajitha, L.Vararasad	Telecommand Signal Integrity Enhancement Via Spectral Minimal Variance In Software Defined Radio Systems	COMPUTER RESEARCH AND DEVELOPMENT JOURNAL	Volume-25, pg no: 618-624	2025
21	T.Jyothi Kumari, P.Rohit, V.Pavani, D.Rajitha	Artificial Intelligence-Based Design Framework for Diamond Fractal MIMO Antennas In Ultra- High-Frequency 6G Networks	OFFICIAL JOURNAL OF THE INDIAN PATENT OFFICE	Application No. 202541071213 A, ISSUE NO. 31/2025	2025
22	T.Jyothi Kumari, P.Rohit, V.Pavani, L.Varaprasad, D.Somasekhar	Efficient Near- Match CAM with Simplified Sensing for Approximate and Error-Tolerant Applications	International Journal of All Research Education and Scientific Methods (IJARESM)	Volume-13, pg no: 1060-1066	2025
23	T.Jyothi Kumari, P.Rohit, V.Pavani, D.Rajitha, Dr.K.Suresh, Dr.M.Satyanaraya na	Printed Array Antenna With Metasurface Using Superstrate Technique for IOT Applications	Wireless Antenna and Microwave Symposium (WAMS)	979-8-3315-2554, 10.1109/ WAMS64402.2025.1 1158983	2025
24	T.Jyothi Kumari, P.Rohit, D.Rajitha, V.Pavani, Dr.K.Suresh, Dr.M.Satyanaraya na	Design of Flexible Antenna Array using Cardboard Paper Substrate for WIFI &WLAN Applications	Wireless Antenna and Microwave Symposium (WAMS)	979-8-3315-2554, 10.1109/ WAMS64402.2025.1 1158490	2025
25	T.Jyothi Kumari,	Adaptive Image	Journal of	Volume-12,	2025

	P.Rohit, V.Pavani, N.Sivaleela, L.Varaprasad	Enhancement Through Reflectance Guided 2D Histogram Equalization	Emerging Technologies and Innovative Research (JETIR)	pg no: 386-391	
26	T.Jyothi Kumari, P.Rohit, D.Rajitha, V.Pavani, N.Sivaleela	Improving Power Efficiency And Blocking Probability In 5G Mm-Wave MIMO Systems Through Adaptive Beamforming	Journal of Emerging Technologies and Innovative Research (JETIR)	Volume-13, pg no: 441-448	2026
27	T.Jyothi Kumari, P.Rohit, V.Pavani, N.Sivaleela, K.Anitha	An Intelligent Non-Invasive Glucose Monitoring System Using Histogram Features, SVM and ADAGRAD Optimization	Journal of Emerging Technologies and Innovative Research (JETIR)	Volume-13, pg no: 676-682	2026
28	T.Jyothi Kumari, P.Rohit, V.Pavani, Simantini Roy Chowdhury	Power Aware FSPA-VLSA Architecture With Adaptive Body Biasing For Advanced Dram Systems	Journal of Emerging Technologies and Innovative Research (JETIR)	Volume-13, pg no: 180-185	2026
29	T.Jyothi Kumari, P.Rohit, V.Pavani, D.Rajitha,	Performance Enhancement of Grille-Shaped Multiband Antenna Using Modified Dgs And Pelican Optimization	International Research Journal of Engineering and Technology (IRJET)	Volume-13, pg no: 1036-1040	2026

Technical Skills

Skill / Technology		
Programming	C	Python
Software Tools	MATLAB	XLINX
Core Skills	Machine Learning	Deep Learning
Domain Knowledge	Signals & Systems	Digital Signal Processing

FDPs

S.No	Program / Certification	Organization	Year
1	Semiconductor Devices, Modeling and Circuit Technology	Lendi Institute of Engineering and Technology, Vizianagaram	2024
2	Recent Advancements In RF And Antenna Technology	SRM University, Andhrapradesh, Amaravathi & IIT PUNE	2025
3	Reconfigurable And Compact Antennas: Enabling Real Time Solutions In Wearable And Health Care Technologies	IEEE MTTS, IIC, Rajyalakshmi Engineering College, Chennai	2025
4	AI Tools for Teachers	Chaitanya Bharathi Institute of Technology, Proddatur, Andhra Pradesh	2025
5	Quantum Machine Learning for Next Generation Communication System” QMLNGC-25	MVGR College of Engineering, Vizianagaram	2025
6	Underwater Robotics: Challenges and Opportunities	Arunai Engineering College, Tiruvanamallai	2026
7	IoT for Teaching, Research and Innovation for Sustainable Development	IEEE Student Branch, IIC, IETE ISF Forum and Fun Electronics Association , Study World College of Engineering, Coimbatore,	2026
8	AI & Quantum Computing for Advanced Applications (AIQCAA-26)	MVGR College of Engineering, Vizianagaram	2026
9	From Research to Publication	Kishkinda University Ballari	2026

Certifications

S.No	Certification	Organization	Year
1	Ultra Dense Networks for 5G & its Evolution	EDX	2024
2	Introduction to Microprocessors	EDX	2024

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