

Dr. Venkata Sainath Gupta Thadikemalla



Designation : Assistant Professor (Selection Grade)
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Contact at : EC 201, Department of ECE,
 Velagapudi Ramakrishna Siddhartha School of Engineering,
 Siddhartha Academy of Higher Education (SAHE), Deemed
 to be University, Kanuru, Vijayawada, Andhra Pradesh
 520007.

Education

Ph. D (Communication & Signal Processing)

2020, VNIT, Nagpur, INDIA.

M.Tech (Communication Systems Engineering)

2014, VNIT, Nagpur, INDIA.

B.Tech (Electronics and Communication Engineering)

2011, Vignan Institute of Technology and Science, Hyderabad, INDIA.

Experience

Period	Designation	Institution / Organization	Key Responsibilities
2025- Till Date	Assistant Professor (Selection Grade)	Siddhartha Academy of Higher Education (SAHE), Deemed to be University (Formerly, Velagapudi Ramakrishna Siddhartha Engineering College)	Seed Grant Committee Member, NBA/NAAC coordination, Research publication, Communication Module coordinator, Councillor, Internal BoS Member
2019- 2025	Assistant Professor	Velagapudi Ramakrishna Siddhartha Engineering College	Incubation Center Co-incharge, NBA/NAAC coordination, Research publication, Module coordinator, Councillor

Research Interests

Broad Area of Research:

- Medical Image Analysis
- Applied Machine Learning
- Compressive Sensing

Honors and Awards

- Summer Faculty Research Fellow at IIT Delhi, May-July 2024.

Courses Taught

S.No	Course Name	Level (UG/PG)
1	Analog & Digital Communication	UG
2	Analog & Digital Communication Lab	UG
3	Digital Communication	UG
4	Computer Networks	UG
5	Wireless Networks	UG
6	Mobile and Cellular Communication	UG
7	Programming in C	UG
8	Mathematical Foundations for Communication Engineers	PG

Research Profile

Publications

The recent publications and research contributions can be viewed from the following URLs

Google Scholar	https://scholar.google.co.in/citations?user=qHUDAr8AAAAJ&hl=en
Scopus	https://www.scopus.com/authid/detail.uri?authorId=57195199859
ORCID	https://orcid.org/0000-0003-3936-8665
Web of Science	https://www.webofscience.com/wos/author/record/AAQ-3389-2021
Research Gate	https://www.researchgate.net/profile/Venkata_Sainath_Thadikemalla2?ev=hdr_xprf

LinkedIn	https://www.linkedin.com/in/venkata-sainath-gupta-t-09045538/
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Recognized Research Supervisor

S.No.	Department	University
01.	Electronics and Communication Engineering	SAHE, Deemed to be University

Funded Research Projects

S.No.	Type	Title	Status	Funding Agency	Amount (INR)	Duration
01.	Funded	Development of Compressive Sensing Techniques for SAR Image Reconstruction	On-Going	ISRO	18,17,726/-	2 Years
01.	Funded	Artificial Intelligence based Automated Quality Assessment of MRI image Registration in Big Data Brain Studies	On-Going	SAHE, Deemed to be University	1,08,000/-	1 Year

Administrative Roles

S.No.	Role	Institution	Duration	Responsibilities
1	Incubation Centre Co-Incharge	SAHE	2021-2025	Assist and guide students to develop innovative projects.
2	NBA/NAAC Coordination	SAHE	2019- Till Date	NBA Criteria 7 –member, NAAC Criteria 2 - member
3	Councillor	SAHE	2019- Till Date	Student mentoring and professional guidance
4	Module Coordinator	SAHE	2022- Till Date	Responsible to finalize communication related subjects including syllabus, micro syllabus

5	Seed Grant Committee Member	SAHE	2025- Till Date	Invite seed grant proposals, scrutinize, select the innovative proposals and conduct mid-term reviews
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Certifications/MOOC Courses Completed

S.No.	Title	Platform	Duration	Year
1.	Python for Data Science	NPTEL	4 Weeks	2019
2.	Mathematics for Machine Learning	Coursera		2020
3.	Simulation, Algorithm Analysis and Pointers	Coursera		2020
4.	AI for Everyone	Coursera		2020
5.	Networking Essentials	CISCO	70 Hours	2022
6.	Applied Data Science	IBM	2 Months	2022

Consultancy / Industry Projects

Completed	02
On-going	01
Applied	01

Patents

S.No	Title	Status	Application No.	Year
1.	A System and A Method for Automated Quality Control of Affine Registrations in Big Data Brain MRI	Granted	202241065452	2025
2	Expiry Indication Symbol for Medicine Blister Packaging	Filed	438765-001	2025

Ph.D

Awarded	00
Guiding	00

Invited Talks

No. of Invited Talks	02
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Professional Service / Reviewer

- Diagnostics, MDPI
- Healthcare, MDPI
- Engineering Applications of Artificial Intelligence, Elsevier
- International Journal of Electrical Power & Energy Systems, Elsevier
- Evaluator for Toycathon – 2021 & Smart India Hackthon - 2022, organised by Government of India.
- Reviewer for ISBI-2025, ICIC3S 2024, PCEMS 2023, AISP-2022

Professional Development Activities - Participations

Faculty Development and Training Programmes (at least 5 Days)	15
International / National Level Seminars	01 / 08
International / National Level Conferences	11 / 01
Workshops	09
Instructor Led / Self-Paced Courses	10
Webinars	09

Professional Bodies Membership Details

S.No.	Membership No.	Society Name
1.	92888631	IEEE, IEEE Signal Processing Society



(Venkata Sainath Gupta Thadikemalla)
