Name: Dr. CHEVELLA ANIL KUMAR

Designation: Assistant Professor Department: Electronics & Communication Engineering MailID: anilkumar_chevella@vnrvjiet.in Experience (in years): Teaching:05 Research: 05 Others (If any, Specify):



1.Educational / Technical qualifications:

S.No	Level (UG / PG / Ph.D)	Year of passing	Specialization
1	Ph.D	2023	Signal Processing
2	M.Tech	2016	VLSI System Design
3	B. Tech	2013	Electronics & Communication
			Engineering
4	Intermediate	2009	MPC
5	High School Education	2007	SSC

2.Teaching and Learning:

- 2.1.Teaching Interests: Probability Theory and Stochastic Process, Signals and Systems, Digital Signal Processing, Digital Image Processing, Digital system Design, Internet of Things, Neural networks, Deep learning, Python Programming.
- 2.2. Novel Teaching & Learning Techniques adopted: Active learning methods like POGIL, WIT & WIL, Lab protocol, project based learning, group tasks, discussion forums etc.
- 2.3. Involvement in curriculum updating / Design: --

INVOLVED ACADEMIC or SPONSORED R&D PROJECTS

S.No.	Title of the Project	Funded by	Principal Investigator	Co- Principal Investigator	Duration	Role
1.	"Speech Technologies for Humanoids"	ISRO	Dr. P. Laxmi Narayana, Director & Professor, NERTU, Osmania University	Dr. K. Anitha Sheela, Professor, ECE, JNTU Hyderabad	1 year (Jun, 2020- June, 2021)	Junior Research Fellow (Text-to-Speech Synthesis Module)
2.	Design, Construction and Analysis Of Comprehensive Dataset For	UGC-	Dr. K. Anitha Sheela, Professor, ECE, JNTU	Dr. K. P. Supreethi, Professor, CSE, JNTU	2.5 years	Junior Research Fellow

	Emotion Detection Using Multiple	MRP	Hyderabad	Hyderabad	(Feb,2018-Jun, 2020)	
	Biometrics					
3.	Design and Implementation of Sign language Translator (SignXter) using Hierarchical Long Short Term Memory (LSTM)		Dr. K. Anitha Sheela, Professor, ECE, JNTU Hyderabad	_	3 years	Involved in Building TTS Voice Module and Integration of ISL-to- Text and Text-to-Speech

3. Co-curricular and Extra-Curricular Activities

3.1 Interests and Hobbies

• Interest in Teaching and Research, Reading books, Playing games and Entertainemnet.

3.2 CCA/ECA Organized

3.3 CCA/ECA Involved

- Involved in sports day functions conducted at VNRVJIET
- Involved in ICMAAC-22 Conference conducted at VNRVJIET
- 3.4 Counseling and Mentoring Activity
 - Mentoring students to develop their career in academics and in their future goals And aware them opportunities in their interested field
- 3.5. Committees involved in: --

4. Conference / Workshop / Seminar / Guest Lectures:

- 4.1 Conducted
 - Conducted a Semester Course as a Co-Coordinator on "Speech and Language Technologies Using Artificial Intelligence and Deep Learning" at Research and Training Unit For Navigational Electronics, Osmania University along with Dr. P. Laxmi Narayana, Director, NERTU, Osmania University from September 21, 2020 – November 07, 2020.
 - Actively Involved in Conducting the Faculty Development Programme on "Artificial Neural Networks & Deep Learning" along with the Dr. K. Anitha Sheela, Professor, Department of ECE, JNTUH CEH, Sponsored by AICTE and conducted at UGC-Human Resource Development Centre, JNTUH from 04-11-2019 to 08-11-2019.
 - Actively Involved in Conducting the Refresher Course on "Systems and Signal **Processing**" Sponsored by University Grant Commission and conducted at UGC-Human Resource Development Centre, JNTU Hyderabad from 12-11-2018 to 01-12-2018 along with the Dr. K. Anitha Sheela, Professor, Department of ECE, JNTUH CEH.
 - Conducted a 30 Days Advanced Python Programming Master classes as coordinator conducted by Skill AP, APSSDC from 27.10.2022 to 27.11.2022.

- Given a Lecture on "Building LSTM network using Matlab and Analysis/ Case Study of LSTM for Automatic Sign language Recognition" as Resource Person in Short Term Training Programme on "Covid-19 Data Analysis with Deep Learning" Sponsored by AICTE and conducted at UGC-Human Resource Development Centre, JNTUH from 08-11-2021 to 15-11-2021
- Deliver a Lecture on Face Recognition using Deep Learning (CNN)" in All India Seminar on Cyber Security and Image Processing at IEI (Institute of Engineers in India), Hyderabad. Page No: 53, August 10-11, 2019.
- Given a Lecture on Text to Speech system at "Speech and Language Technologies Using Artificial Intelligence and Deep Learning" program at Research and Training Unit For Navigational Electronics, Osmania University, conducted from September 21, 2020 November 07, 2020.
- 4.2 Attended
 - Participated One week Faculty Development Program on "**Digital Signal Processing**", conducted by JNTU Hyderabad, University Academic Audit Cell from 11th to 16th December, 2017
 - Participated in MeitY, Govt. Of India, Sponsored One week Faculty Development Program on "**System Design Aspects in IOT**" Organized by the E & ICT Academy, NIT Warangal at JNTUH College of Engineering (A), Hyderabad from 26th June 02nd July, 2018.
 - Participated One Week Faculty Awareness Program on "Contemporary Research and IPR" at JNTUH College of Engineering Hyderabad from 28th Jan to 1st Feb, 2019.
 - Participated in Workshop on "AICTE Quality Initiatives and Funding" organized by UGC Human Resource Development Centre Jawaharlal Nehru Technological University Hyderabad on 29th October 2021
 - Participated in the Online short time skill development course on "Deep Learning-Based Speech Processing Techniques for Smart Health and Educational Systems-Concepts, Recent Trends and Key Challenges" conducted by Technology Innovation Hub (TIH), IIT Patna during 20th Sep, 2021-24th Sep, 2021
 - Attended a webinor on Deep learning for Speech Processing conducted on 26th September, 2022.
 - Participated in IP Awareness/Training program under National Intellectual property awareness mission on October 19, 2022 organized by Intellectual Property Office, India.
 - Attended a ONE WEEK Advanced Management Development program on TELEMEDICINE IN RURAL HEALTHCARE Sponsered by the DC-MSME, Ministry of MSME, GOI (16-21 January 2023) conducted at NIT Warangal.
 - Attended a ONE WEEK Professional Development Program on "Instructional Design and Delivery Systems conducted by NITTTR Chennai from 20-03-2023 to 25-03-2023 at VNR Viganana Jyothi Institute of Engineering and Technology.

5. Academic Contribution and Research & Consultancy:

- 5.1. Invited Lectures: 03
- 5.2. Articles/Chapters published in Books:03
- 5.3. Books published as single author or as editor: --
- 5.4. Projects Guided:
- a) UG:04 b) PG: 02

5.5. Research Interests: Signal Processing (Image and Speech), Neural Networks, A.I, Machine Learning and Deep Learning

- 5.6. Ph.D students: --
- 5.7. Papers published in reviewed Journals:

S. No	Title of the Paper	Title of the journal	ISBN/I SSN No.	Volume & Issue		Indexed In SCOPU S (or) Web Of Science (or) Google Scholar
1.	Development of a speech to Indian sign language Translator	Smart Trends in computing and Communica tion	978- 981-99- 0837-0	10.1007/978-981-99-0838-7_30		Scopus, EI Index
2	Emotion Classification from Facial Images and Videos Using a Convolutional Neural Network	Internationa 1 Journal of Advanced Trends in Computer Science and Engineering Volume 11, No.1, January – February 2022,8-13	ISSN 2278- 3091	https://doi.org/10.30534/ijatcse/20 22/031112022		Scopus, ugc care, google scholar
3	Implementing and Evaluation of Synthesis System for Building Indian Accent Text-to- Speech voice	International Journal of Multidiscipli nary Educational Research	2277-788	31	DOI:http://ijmer.in.doi./2021 /10.11.109.	UGC care

	model				
4	Building of Synthesis voice models in Local Language Telugu and Indian Accent English	POSITIF JOURNAL	0048-4911	DOI.ORG/10.37896/PSJ	Scopus, ugc care,Go ogle Scholar
5	Emotion Recognition from Speech Biometric System Using Machine Learning Algorithms	In Advances in Communicat ions, Signal Processing, and VLSI. Lecture Notes in Electrical Engineering, vol 722. Springer	Print ISBN 978-981-33- 4057-2 Online ISBN 978-981-33- 4058-9	https://doi.org/10.1007/978- 981-33-4058-9_6.	Springer
6	Emotion Recognition from Facial Biometric System Using Deep Convolution Neural Network (D- CNN).	In Advances in Systems Engineering. Lecture Notes in Mechanical Engineering. Springer	Print ISBN 978-981-15- 8024-6 Online ISBN 978-981-15- 8025-3	https://doi.org/10.1007/978- 981-15-8025-3_37	Springer
7	A NOVEL APPROACH FOR FPGA CHIP IDENTIFICA TION GENERATO R USING CONFIGUR ABLE RING OSCILLATO RS	Indian J.Sci.Res. 17(2): 375 - 379, 2018	0976-2876		

5.8. Papers presented at National / International Conferences:

S.No	Title of the Paper	Names of the Conference/ Seminars	National/ International	Period
1	Real-Time Emotional analysis from a live webcam using deep learning	IEEE 2022 INTERNATIONAL CONFERENCE OF EMERGING TECHNOLOGIES (INCET), Belagavi, Karnataka, India,	International	May 27th - 29th 2022 (Published in IEEE Xplore)
2	The sentiment analysis of human behavior on products and organizations using K-Means Clustering and SVM classifier	IEEE 2022 3rd International Conference on Intelligent Engineering and Management (ICIEM)	International	27th - 29th April 2022 (Published in IEEE Xplore)
3	Face Recognition using Deep Learning (CNN)	All India Seminar on Cyber Security and Image Processing at IEI (Institute of Engineers in India)	National	August 10- 11, 2019.
4	Indian Sign Language Translator	2022 IEEE International Symposium on Smart Electronic Systems (iSES)	International	December 19-21, 2022 (Published in IEEE XPlore open Access)
5	Analysis of Emotions from Speech using Hybrid Deep Learning Network Models	2022 International Conference on Futuristic Technologies (INCOFT)	International	Karnataka, India. Nov 25-27, 2022 (Published in IEEE Xplore)
6	"Image to Image Translation using Generative Adversarial Networks"	"4th International Conference on Data Intelligence and Cognitive Informatics (ICDICI 2023)"	International	June 27-28, 2023 at the SCAD College of Engineering and Technology in Tirunelveli, India. (Accepted

		for
		presentation)

5.9. Sponsored research Projects:

S. No	Title		Agency	Period	Grant amount	Ongoing / Completed		
5.10 0	5.10 Consultancy Projects:							
S.No	Title	Agency			Sanctioned Amount	Ongoing / Completed		

6. Awards / Honours received:

- Qualified NTA UGC-NET –January, 2019
- Qualified in Osmania University Ph.D. Eligibility Test 2016
- Got Certificate of Excellence in 3rd Gyan Nidhi Scholarship (GNS-2012) Program, Conducted by CMC ACADEMY (A Subsidiary of TCS Limited) on September, 2012.
- Completed **NPTEL Course** on "Fuzzy Logic and Neural Network" Conducted by IIT Kharagpur
- Completed SWAYAM-NPTEL Course on "Programming for python"
- Completed SWAYAM-NPTEL Course on "Introduction to Cyber Security"

PATENTS (2-Published):

i. **Title of the invention:** SECURITY SYSTEM FOR WOMEN SAFETY AND REAL-TIME MONITORING

Application No.: 202341018492

The Patent Office Journal No.: 13/2023 Dated 31/03/2023

ii. **Title of the invention:** COMMUNICATION SYSTEM FOR TRANSLATING INDIAN SIGN LANGUAGE INTO SPEECH

Application No.: 202341028298

7. Motto: "Give a man a fish and you feed him for a day; teach a man to fish and you feed him for a lifetime." —Maimonides