

FACULTY PROFILE

1. Name : Dr. Tirumanadham N S Koti Mani Kumar
2. Designation : Assistant Professor
3. Department : Computer Science and Engineering
4. Date of Joining : 08-06-2017
5. Nature of Employment: Regular
6. Date of Birth : 09-06-1992
7. Unique ID (AICTE FID) : 1-3540444517
8. Email : manikumar1248@gmail.com
: koti1248@sircrrengg.ac.in
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10. Address communication: Adimulamvaripalemalem,
Udumudi Post,
P.Gannavaram Mandal
East Godavari
Andhra Pradesh - 533274



11. Educational Qualifications:

Qualification	Institute	University/Board	Specialization	Year of Passing	Division/Class
Ph.D.	BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH, TAMIL NADU	BHARATH UNIVERSITY	CSE	2025	AWARDED
M.Tech	NOVA COLLEGE OF ENGINEERING AND TECHNOLOGY	JNTUK	CSE	2017	1 ST CLASS WITH DISTINCTION
B.Tech	SRI VASAVI ENGINEERING COLLEGE	JNTUK	IT	2013	1 ST CLASS WITH DISTINCTION
Inter	ADITYA JUNIOR COLLEGE	BOARD OF INTERMEDIATE	M.P.C	2009	1 ST CLASS
SSC	KENNEDY CONVENT HIGH SCHOOL	BOARD OF SECONDARY EDUCATION	-	2007	1 ST CLASS

12. Work Experience:

Teaching: 8 YEARS

Research: NIL Industry: NIL

Total: 8 YEARS

Name of the Organization	Designation	Date From	Date To
SIR C R REDDY COLLEGE OF ENGINEERING	ASSISTANT PROFESSOR	08-06-2017	TILL DATE

13. Courses taught:

S.No.	Name of the subject	UG/PG
1	C PROGRAMMING	UG
2	JAVA PROGRAMMING	UG
3	PYTHON PROGRAMMING	UG
4	FUNDAMENTALS OF COMPUTER SCIENCE	UG
5	DATA COMMUNICATIONS	UG
6	COMPUTER NETWORKS	UG

14. Administrative Responsibilities:

S.No.	Description	College/ Department level
1	PUBLIC SPEAKING CLUB COORDINATOR	DEPARTMENT
2	WEBSITE CONVENOR	COLLEGE

15. Research Guidance:

M.Tech.		Ph.D.	
Completed	Ongoing	Completed	Ongoing
0	0	0	0

16. Research Publications in Journals (National/International)

S. No	Author(s) Name	Title of the Paper	Name of the Journal	National/ International	Month & Year	Volume, Issue No, Page Nos	UGC/ Web of Science s/ Scopus / SCI/Others
1	T. KOTI MANI KUMAR	Boosting Student Performance Prediction In E-Learning: A Hybrid Feature Selection and Multi-Tier Ensemble Modelling Framework with Federated Learning.	Journal of Theoretical and Applied Information Technology	International	2025	118, 1185-1208	SCOPUS
2		ElimRidge-HFM: A Mathematical Integration of Feature		International	2025	VOL-6, ISSUE NO:4 PG NO:	ESCI-SCOPUS

	T. KOTI MANI KUMAR	Selection, Boosting, and Hyperparameter Search for Enhanced Predictive Performance in E-Learning	Contemporary Mathematics			4459-4482	
3	T. KOTI MANI KUMAR	Optimizing Diabetes Diagnosis: HFM with Tree-Structured Parzen Estimator for Enhanced Predictive Performance and Interpretability.	Fusion Practice and Applications	International	2025	VOL-9, ISSUE NO:1 PG NO: 57-74	SCOPUS
4	Tirumanadham, N S Koti Mani Kumar, and Thaiyalnayaki S.	“Enhancing Student Performance Prediction in e-learning Environments: Advanced Ensemble Techniques and Robust Feature Selection.”	International Journal of Modern Education and Computer Science	International	2025	Vol. 17, No. 2 Pp:67-86	SCOPUS
5	T. KOTI MANI KUMAR	Optimizing Intrusion Detection with Triple Boost Ensemble for Enhanced Detection of Rare and Evolving Network Attacks	International Journal of Electrical and Electronic Engineering & Telecommunications	International	2025	14(3), 115-129	SCOPUS
6	Tirumanadham, N S Koti Mani Kumar, Thaiyalnayaki S and Ganesan V.	“Towards Smarter E-Learning: Real-Time Analytics and Machine Learning for Personalized Education”	International Journal of Computational and Experimental Science and Engineering	International	2025	Vol. 11 No. 1	SCOPUS
7	T. KOTI MANI	SGB-IDS: A Swarm Gradient Boosting Intrusion	Journal of Theoretical and Applied	International	2025	103(5)	SCOPUS

	KUMAR	Detection System Using Hybrid Feature Selection for Enhanced Network Security	Information Technology				
8	T. KOTI MANI KUMAR	An Analysis of Diverse Computational Models for Predicting Student Achievement on E-Learning Platforms Using Machine Learning.	International Journal of Electrical and Computer Engineering (IJECE)	International	2024	14(6)	SCOPUS
9	T. KOTI MANI KUMAR	Improving Predictive Performance in E-Learning through Hybrid 2-Tier Feature Selection and Hyper Parameter-Optimized 3-Tier Ensemble Modeling.”	International Journal of Information Technology	International	2024	16(8) 5429–5456	SCOPUS
10	Praveen SP, Hasan MK, Abdullah SNHS, Sirisha U, Tirumanadham NSKMK , Islam S, Ahmed FRA, Ahmed TE, Noboni AA, Sampedro GA, Yeun CY and Ghazal TM	“Enhanced feature selection and ensemble learning for cardiovascular disease prediction: hybrid GOL2-2 T and adaptive boosted decision fusion with babysitting refinement.”	Front. Med.	International	2024	11(14)) 07376	SCIE
11	Tirumanadham, N S Koti Mani Kumar, and Thaiyalnayaki S.	“ELM-based stroke classification using wavelet and empirical mode decomposition techniques”	Computer Methods in Biomechanics and Biomedical Engineering: Imaging & Visualization	International	2024	11(7)	ESCI

17. Research Papers in Conferences (National/International):

S.No.	Author(s) Name	Title of the Paper	Name of the Conference/Journal	National/ International	Month & Year	Indexed
1	N S Koti Mani Kumar Tirumanadham; Thaiyalnayaki S; Ganesan V	Accurate and Explainable AI in Student Performance Prediction Using E- Learning Classification	International Conference on Next Generation Information System Engineering (NGISE)	International	March 2025	SCOPUS
2	N S Koti Mani Kumar Tirumanadham; Thaiyalnayaki S; Ganesan V	Enhancing Student Performance Prediction using E- Learning through Multimodal Data Integration and Machine Learning Techniques	4th International Conference on Sentiment Analysis and Deep Learning (ICSADL)	International	February 2025	SCOPUS
3	Chandra Shikhi Kodete, Ramakrishna Kandunuri, Sreenu Konda, Lakshmi Sripada, Naga Satya Koti Mani Kumar Tirumanadham, Vahiduddin Shariff	Boosting breast cancer detection: A voting ensemble with optimized feature selection	AIP Conference Proceedings	International	July 2025	SCOPUS
4	NS Koti Mani Kumar Tirumanadham, V Priyadarshini, S Praveen, Balamuralikrishna Thati, Parvathaneni Naga srinivasu, V Shariff	Optimizing lung cancer prediction models: A hybrid methodology using GWO and Random Forest	Enabling Person- Centric Healthcare Using Ambient Assistive Technology	International	February 2025	SCOPUS
5	Chandra Shikhi Kodete, Vikram Pasupuleti, Bharadwaj Thuraka, Varun Varma Sangaraju,	Robust heart disease prediction: A hybrid approach to feature	4th International Conference on Ubiquitous Computing and Intelligent Information Systems	International	DEC 2024	SCOPUS

	N S Koti Mani Kumar Tirumanadham, Vahiduddin Shariff	selection and model building	(ICUIS)			
6	Raja Rao PBV, T N S Koti Mani Kumar, S Phani Praveen, S Sindhura, Nidal A Al-Dmour, Shayla Islam	Optimizing lung cancer detection: the synergy of support vector machine and random forest	International Conference on Decision Aid Sciences and Applications (DASA)	International	DEC 2024	SCOPUS
7	Naga Deepti Ponnaganti, T N S Koti Mani Kumar, S Phani Praveen, S Sindhura, Nidal A Al-Dmour, Shayla Islam	A Robust SVM Framework for Heart Disease Detection Utilizing Advanced Feature Selection Techniques	International Conference on Decision Aid Sciences and Applications (DASA)	International	DEC 2024	SCOPUS
8	Bharadwaj Thuraka, Vikram Pasupuleti, Chandra Shikhi Kodete, U Ganesh Naidu, N S Koti Mani Kumar Tirumanadham, Vahiduddin Shariff	Enhancing predictive model performance through comprehensive pre-processing and hybrid feature selection: A study using SVM	2nd International Conference on Self Sustainable Artificial Intelligence Systems (ICSSAS)	International	OCT 2024	SCOPUS
9	Chandra Shikhi Kodete, D Vijaya Saradhi, Vineela Krishna Suri, P Bharat Siva Varma, NS Koti Mani Kumar Tirumanadham, V Shariff	Boosting lung cancer prediction accuracy through advanced data processing and machine learning models	4th International Conference on Sustainable Expert Systems (ICSES)	International	OCT 2024	SCOPUS
10	Bharadwaj Thuraka, Vikram Pasupuleti, Chandra Shikhi Kodete, Ravi Swaroop Chigurupati, NS Koti Mani Kumar Tirumanadham, V Shariff	Enhancing diabetes prediction using hybrid feature selection and ensemble learning with AdaBoost	8th International Conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud)(I-SMAC)	International	OCT 2024	SCOPUS
11	Chigurupati Ravi	Optimizing			July	SCOPUS

	Swaroop, Vemuri Jayamanasa, R Shiva Shankar, M Ganesh Babu, Vahiduddin Shariff, NS Koti Mani Kumar	diabetes prediction through Intelligent feature selection: a comparative analysis of Grey Wolf Optimization with AdaBoost and Ant Colony Optimization with XGBoost	Algorithms in Advanced Artificial Intelligence	International	2024	
12	K Varada Rajkumar, K Sri Nithya, Ch. Teja Sai Narasimha, V Shariff, V Jaya Manasa, NS Koti Mani Kumar Tirumanadham	Scalable web data extraction for Xtree analysis: Algorithms and performance evaluation	Second International Conference on Inventive Computing and Informatics (ICICI)	International	June 2024	SCOPUS
13	VS Pavan Kumar, S Koteswara Rao Yarlagadda, Neelima Pilli, N S Koti Mani Kumar Tirumanadham , Elangovan Muniyandy, Gulli Ruth	SHAP-Guided GWO and ABC Feature Selection for Early Diabetes Prediction with XGBoost	2nd International Conference on Advancement in Computation & Computer Technologies (InCACCT)	International	May 2024	SCOPUS
14	N S Koti Mani Kumar Tirumanadham , S Thaiyalnayaki, M SriRam	Evaluating boosting algorithms for academic performance prediction in E-learning environments	International Conference on Intelligent and Innovative Technologies in Computing, Electrical and Electronics (IITCEE)	International	Jan 2024	SCOPUS
15	Sreenu Konda, Chandrashekhara Goswami, Ramesh Yajjala, N S Koti Mani Kumar Tirumanadham	Optimizing diabetes prediction: a comparative analysis of ensemble machine learning models with PSO-AdaBoost and ACO-XGBoost	International Conference on Sustainable Communication Networks and Application (ICSCNA)	International	Nov 2023	SCOPUS
16	Pranav Vallabhaneni, ,	Data-Driven Early Warning	International Conference on		Nov 2023	SCOPUS

	Kiran Kumar Kaveti, MVAL Narasimha Rao, NS Koti Mani Kumar Tirumanadham	System for Subject Performance: A SMOTE and Ensemble Approach (SMOTE-RFET)	Sustainable Communication Networks and Application (ICSCNA)	International		
17	Homer Benny Bandela, Shaik Sikindar, Chigurupati Ravi Swaroop, MVAL Narasimha Rao, Jyothi Surapaneni, NS Koti Mani Kumar Tirumanadham	An Optimized Bagging Ensemble Learning of Machine Learning Algorithms for Early Detection of Diabetes	International Conference on Self Sustainable Artificial Intelligence Systems (ICSSAS)	International	OCT 2023	SCOPUS
18	T N S Koti Mani Kumar , Vahiduddin Shariff, Venkata Rami Reddy Ch, PA Harsha Vardhini	A Comparison between Shortest Path Algorithms Using Runtime Analysis and Negative Edges in Computer Networks	2022 International Mobile and Embedded Technology Conference (MECON)	International	Mar 2022	SOPUS
19	K Varada Rajkumar, Pranav Vallabhaneni, Krishna Marlapalli, TNS Koti Mani Kumar , S Revathi	Detection of Fake News Using Natural Language Processing Techniques and Passive Aggressive Classifier	Intelligent Systems and Sustainable Computing Proceedings of ICISSC 2021	International	MAY 2022	SOPUS

18. No of Books Published: 02

S.No.	Author(s) Name	Title	Publisher	ISBN	Year of Publishing
1	T. KOTI MANI KUMAR	A TEXT BOOK OF PROGRAMMING IN C	PANDIT PUBLICATIONS	978-93-89044-22-5	2020
2	T N S KOTI MANI KUMAR	PROGRAMMING FOR PROBLEM SOLVING USING C	NOTION PRESS	979-888717596-6	2022

19. Workshops/ FDPs/STTPs/ etc., (Attended):

- Attended 5-day FDP on **MACHINE LEARNING AND ARTIFICIAL INTELLIGENCE** Organized by **Andhra Pradesh State Skill Development Corporation (APSSDC)** on 13-17, Nov, 2023.
- Attended 2-day offline workshop on **VIRTUAL REALITY** Organized by **JNTUK** on 28-29, Oct, 2022.
- Attended 5-day online FDP on **INCULCATING UNIVERSAL HUMAN VALUES IN TECHNICAL EDUCATION** Organized by **AICTE** on 05-09, Dec, 2022.
- Attended 2-day workshop on **MODERN METHODS OF TEACHING - LEARNING PRACTICES** Organized by CSE Department of **KRISHNA UNIVERSITY** on 12-13, May, 2020.
- Attended 2-weeks FDP on **PYTHON PROGRAMMING** Organized by **APSSDC** from 18-05-2020 to 30-05-2020
- Attended 5-day FDP on **BIG DATA ANALYTICS** Organized by **NIT-WARANGAL** during 21st -25th, May, 2018
- Attended 1-week FDP on **INSTRUCTIONAL DESIGN AND DELIVERY SYSTEMS** Organized by **NITTR** from 04-12-2017 to 09-12-2017

20. NPTEL /AICTE MODULES (NITTT) COURSES -ATTENDED:

- Successfully Completed **NPTEL** Online Certification Course on **INTRODUCTION TO RESEARCH** On Feb-Apr-2019 (08 Weeks).
- Successfully Completed **NPTEL** Online Certification Course on **CLOUD COMPUTING** On Aug-Oct-2019 (08 Weeks).
- Successfully Completed **NPTEL** Online Certification Course on **INTRODUCTION TO MACHINE LEARNING** On Jan-Apr-2023 (12 Weeks).
- Successfully Completed **7 AICTE MODULES** conducted by “**National Initiative for Technical Teachers Training**”
 - Module 1: Orientation Towards Technical Education and Curriculum Aspects
 - Module 2: Professional Ethics & Sustainability
 - Module 3: Communication Skills, Modes & Knowledge Dissemination
 - Module 5: Technology Enabled Learning & Life Long Self Learning
 - Module 6: Student Assessment and Evaluation
 - Module 7: Creative Problem Solving, Innovation and Meaningful R & D
 - Module 8: Institutional Management & Administrative Procedures

21. No of Patents (Filed/Granted):

S.No.	Title	Application Number	Year	Filed/Granted
1	ARTIFICIAL INTELLIGENCE METHOD FOR RECOGNIZING THE USER FROM THE IMAGE DATA	202241004386	04/02/2022	Filed

22. Professional Memberships:

S.No.	Name of the Professional Body	Membership No.	Membership Type
1	IEEE	101020233	MEMBER
2	THE SOCIETY OF DIGITAL INFORMATION AND WIRELESS COMMUNICATIONS	26859	MEMBER
3	INTERNATIONAL ASSOCIATION OF ENGINEERS(IAENG)	192890	MEMBER

23. Details of Personal Blogs/ Educational YouTube Channels/ e content (if any):

BLOG: <https://koti1248.blogspot.com/>

YOUTUBE CHANNEL:

https://youtube.com/channel/UCDL_BDW5u2MMr67FcsgmDGw

24. Details of Innovative Design/ Development of Product or Model (if any):**25. Technology Transfer:****26. Special Achievements:**

Microsoft Certified in "Microsoft Dynamics CRM 2016 Customization and Configuration" Candidate ID: MS0615248291

27. Personal Details:

(a) Father's Name : TIRUMANADHAM TATAYYA NAIDU
(b) Mother's Name : TIRUMANADHAM POLA MANI
(c) Gender : MALE
(d) Marital Status : MARRIED
(e) Religion : HINDU
(f) Nationality : INDIAN

Signature