Dr. B. Sateesh Kumar

B.Tech(CSE), M.Tech(SE), Ph.D(CSE)

Professor, Head of the Department

Life Membership in ISTE

Computer Science & Engineering

Areas of Interest:
Artificial Intelligence
Machine Learning
Data Science
Data Mining
Software Engineering

Dr. B. Sateesh Kumar is a highly accomplished academician with an extensive background in the field of computer science and engineering. With a total teaching experience spanning more than two decades, he has established himself as a respected educator in the academic community of JNTUH.

Currently serving as the Head of the Department (HOD) of the Computer Science and Engineering (CSE) Department at JNTUH University College of Engineering Jagtial, He plays a pivotal role in shaping the educational and research endeavours of the Department.

His journey in academia began in the early 2000s when he assumed the position of Assistant Professor and later, the Head of Department, at PIRMEC (Patnam Indra Reddy Memorial Engineering College) from 2002 to 2004, located in Chevella, Hyderabad. Subsequently, he joined JBREC (Joginpally Bhaskar Rao Engineering College) as an Assistant Professor, Head of the Department, and Training and Placement Officer (TPO) from 2004 to 2006, situated in Moinabad, Hyderabad.

His contributions to JNTUH UCEJ (JNTUH University College of Engineering, Jagtial) include serving as the Deputy Warden, Hostel Manager, and TPO. Beyond his direct institutional responsibilities, he is actively engaged as a Board of Studies (BOS) member for several esteemed institutions, including ACE Engineering College,Â **MEGHA INSTITUTE OF ENGINEERING AND TECHNOLOGY** and Sree Dattha Institute of Engineering and Science, where he imparts his valuable insights to curriculum development and educational policy.

In addition to his notable roles and achievements, Dr. Kumar's outstanding efforts have been honored with awards, including the Mater educator in Academic Leadership Award by AIMER Society(2024), Jyeshta Acharya Award by Bharathy Education Excellence(2024), Vishista Seva Puraskar from JNTUHCEJ in 2011, the Bharath Jyoti Award from IIFS Delhi in 2011, and the Best Teacher Award from JBREC, Moinabad, in 2006.

An achievement that further underscores his expertise is his role as an Oracle Academy Official Instructor since May 2016. He has been certified by Oracle Academy to teach Database Management Systems (DBMS) and Java programming. He has successfully trained over 1000 students in these areas, leveraging his expertise and the resources provided by Oracle Academy.

Beyond his core roles, Dr. B. Sateesh Kumar's influence extends through various engagements: He has served as a Governing Body Member for several institutions, including DRK Institute of Science and Technology, Medchal, Hyderabad, Telangana, and PullaReddy Institute of Pharmacy,Hyderabad, Telangana, and a member of Board of Studies (BoS) Â for several esteemed institutions.

Dr. B. Sateesh Kumar's contributions to academia have garnered recognition, particularly his accolade from TASK (Telangana Academy for Skill and Knowledge) for outstanding training in Java Programming, further affirming his impact on students' skill development and readiness for the tech industry. As an addition to his academic excellence, he has numerous publications in various National and International Conferences and has organized several Refresher Programs, STTPs, FDPs and Workshops and is the Session Chair for several National and International Conferences.

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- ▸ **Educational & Professional**

- ▸**Academic Qualifications**
    - ▸ Ph.D in COMPUTER SCIENCE AND ENGINEERING, JNTU HYDERABAD (2006-2016)
- ▸
 M.Tech in SOFTWARE ENGINEERING, JNTUH, SIT (2000-2002)
- ▸
 B.Tech in COMPUTER SCIENCE AND ENGINEERING, KAKATIYA UNIVERISTY (1996-2000)
    ▸ **Professional Experience**

- ▸ **Teaching Experience**
- ▸ Assistant Professor, JBREC, Moinabad (06-12-2004 - 30-11-2006)
- ▸ Assistant Professor, P. Indra Reddy Memorial Engg. College, Chevella (25-09-2002 - 05-11-2004)

- ▸ **At JNTUH**
- ▸ Professor, JNTUH (2019 - Till Date)
- ▸ ASSOCIATE PROFESSOR, JNTUH (2016 - 2018)
- ▸ Assistant Professor, JNTUH (2006 - 2015)

- ▸**Patents**
- ▸Dr B Sateesh Kumar, *IoT Based Plastic Waste Disposal Device* ,The Patent Office, Govt. of India, 2024
- ▸Dr B Sateesh Kumar, *IoT Based Medicine Dispenser With Multiple Tablet Organiser* ,The Patent Office, Govt. of India, 2024
- ▸Dr. B. Sateesh Kumar, *AN ADVANCED INCREMENTAL ASSOCIATION RULE MINING PROCESS IN CASE OF DATA INSERTIONS* ,Intellectual Property India, Govt. of India, 2019

- ▸**Publications**

- Dr.B Sateesh Kumar, Md Sirajuddin, *Intelligent Secure and Malicious-Free Route Management Strategy for IoT-based Wireless Sensor Networks.*, IJISAE, ISBN No.2147-6799, Vol No.11, Issue No.7, pp.369-380, July, 2023
- Dr.B Sateesh Kumar, Md Sirajuddin, *Mitigation of Black Hole and Selective Forwarding Attacks through Active Trust Mechanisms in Wireless Sensor Networks*, IJSRCSEIT, ISBN No.2456-3307, Vol No.9, Issue No.3, pp.29-33, May, 2023
- Dr.B Sateesh Kumar, Md Sirajuddin, *Energy-Efficient and Secure Framework for IoMT-Based E-Healthcare Systems Using Intelligent Routing*, IJCSE, ISBN No.2347-2693, Vol No.11, pp.10-16, March, 2023
- Dr. B. Sateesh Kumar, Mohammad Sirajuddin, *Modified Rijndael Algorithm for Resource-Constrained IoT-Based Wireless Sensor Networks*, EAI Endorsed Transactions on Scalable Information Systems, Vol No.10, Issue No.4, pp.1-12, EIA, August, 2023
- Dr.B.Sateesh Kumar, *Detection and Classification of Objects in Satellite Images using Custom CNN*, ZKG International, ISBN No.2366-1313, Vol No.VIII, Issue No.II, pp.78-86, Web of Science Group, JULY, 2023
- Dr.B.Sateesh Kumar, *A Benchmark Survey on High Resolution Remote Sensing Images Learning Techniques*, International Journal of Techno Engineering, IJTE, ISBN No.2057-5688, Vol No.XV, Issue No.III, pp.23-32, IJTE, JULY, 2023
- Dr.B Sateesh Kumar, Md Sirajuddin, *Efficient Trust-based Malicious Node Identification and Recovery Technique in Resource-Constrained Wireless Sensor Networks*, IJARCCE, ISBN No.2278-1021, Vol No.11, pp.216-222, Dec, 2022
- Dr.B Sateesh Kumar, Md Sirajuddin, *Hybrid Intrusion Detection Method Based On Improved Adaboost And Enhanced SVM For Anomaly Detection In Wireless Sensor Networks*, IJARCS, ISBN No.0976-5697, Vol No.13, Issue No.5, pp.38-42, Oct, 2022
- Dr.B Sateesh Kumar, Md Sirajuddin, *Collaborative security schemes for Wireless Sensor Networks*, ICCCE 2021, ISBN No.978-981-16-7984-1, pp.978-981, Springer, May, 2022
- Mohammad Sirajuddin, Dr.B. Sateesh Kumar, *Efficient and Secured Route Management Scheme Against Security Attacks in Wireless Sensor Networks*, International Conference on Electronics and Sustainable Communication Sys, ISBN No.978-1-6654-2866-8, pp.1052-1058, IEEE, Sept, 2021
- Mohammad Sirajuddin, Dr.B. Sateesh Kumar, *SECURE AND EFFICIENT ROUTING SCHEMES AND THEIR DESIGN CHALLENGES IN WIRELESS SENSOR NETWORKS*, INTERNATIONAL JOURNAL OF ADVANCED RESEARCH IN ENGINEERING AND TECHNOLOGY, ISBN No.0976-6480, Vol No.12, Issue No.5, pp.139-146, 5, 2021
- Dr.B.Sateesh Kumar, Ms.M.Divya, *Augmenting Collaborative Filtering By Extending Faceted Search*, International Journal for Research in Engineering Application & Management (IJREAM), ISBN No.2454-9150, Vol No.05, Issue No.05, pp.120-126, August, 2019
- *Improving Security and Large Query Processing In OLAP Databases Using Fully Homomorphic Encryption*, IJSRR, ISBN No.2279543X, Vol No.7, Issue No.9, pp.100-106, Sept, 2018
- *Extended Location Dependent Key Management for Improving Stability and Security in Wireless Sensor Networks*, IJMTE, ISBN No.22497455, Vol No.8, Issue No.9, pp.1829-1834, sept, 2018
- *An Empirical Study of Network Security System Through Dos Attack*, JETIR, ISBN No.23495162, Vol No.5, Issue No.7, pp.1-8, July, 2018
- *Assessment of Vulnerability and Network Security by Penetration Testing.*, JETIR, ISBN No.23495162, Vol No.5, Issue No.7, pp.9-14, July, 2018
- *Integrated Smart Application for Women's Security*, IJSR, ISBN No.09762876, pp.24-28, Mach, 2018
- *Impact of Behavioural Metric in Software Development*, IJSR, ISBN No.09762876, pp.655-658, March, 2018
- *Clickstream Data Prediction Using Random Forestclassifier*, IJSR, ISBN No.09762876, pp.29-32, March, 2018
- *Compromise Twitter Users Privacy with High Accuracy by Providing Novel Attack Methods*, IJARTET, ISBN No.23943777, Vol No.4, Issue No.9, pp.104-11, April, 2017
- *Improving Lifetime of the Wireless Sensor Networks through the Fair Cooperative Routing Method*, IJARTET, ISBN No.23943777, Vol No.4, Issue No.9, pp.98-103, April, 2017
- *Improving Resource Efficiency and Power Efficiency in Content Delivery Networks*, IJIRSET, ISBN No.23198753, Vol No.6, Issue No.9, pp.18058-18062, Sept, 2017
- *Introducing an Energy Efficiency Protocol for Enhancing the Success Routing Probability in WSNs*, IJIRSET, ISBN No.23198753, Vol No.6, Issue No.9, pp.18063-18067, Sept, 2017
- *Minimizing the Harm of Internal Attackers by Implementing Origin Authentication in the Networks*, IJITSET, ISBN No.23198753, Vol No.6, Issue No.9, pp.18054-18057, Sept, 2017
- *Supporting Dynamic Inode Allocation and Save Significant Storage Space in Mobile Computing System*, IJARTET, ISBN No.23198753, Vol No.6, Issue No.9, pp.18124-18128, Sept, 2017
- *Comparison of Methods of Storing and Protecting Information in the Cloud*, IJARCSSE, ISBN No.2277128X, Vol No.7, Issue No.1, pp.117-125, January, 2017
- *Boosting Techniques on Rarity Mining*, IJRCSSE
- *Bipartite RankBoost Approach for Score Level Fusion of Face and Palmprint Biometrics*, IJRCSSE
- *Analysis of Bipartite RankBoost Approach for Score Level Fusion of Face and Palmprint Biometrics*, IJCET
- *An Efficient Boosting Approach for Score Level Fusion of Face and Palmprint Biometrics in Human Recognition*, IJSR
- *Providing the best user navigation through website structural development (681 to 685)*, IJVRIN
- *Emerging application of face biometric and its deception (5492 to 5496)*, IJCSIT
- *Public Integrity Auditing for Dynamic Data Sharing with Multiuser Modification*, IJRITCC
- *A Survey on Distributed Deduplication System for Improved Reliability & Security*, IJSETR
- *A Survey on Detection of Malicious Nodes & Packet Losses in Wireless Ad-Hoc Networks*, IJSETR
- *A Survey on Enhancing Route Reliability & Stability in Heterogeneous Multihop Wireless Networks*, IJSETR
- *Click Stream Data Prediction using Random Forest Classifier*, IJSR-2018
- *Impact of Behavioral Metric in Software Development*, IJSR-2018
- *Integrated Smart Application for Women's Security*, IJSR-2018

International Conference

- *Auto scaling and load balancing service in cloud computing*, ICICSIT-15, International, MGIT, Hyderabad
- *A Survey on Privacy Issues in Online Social Networks*, ICRIEAT-2017
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National Conference

- *A paper on stegnography and steganalysis technique in image, text, audio and video (446-451)*, ACPR-14, National, JNTUHCE, Jagtial
- *Flexible neighbour extraction in aynchronous sensor networks*, ACPR-14, National, JNTUHCE, Jagtial
- *Efficient filtering of objets against uncertain location based queries(90-94)*, MRNC-ISKE-13, National, MREC, Hyderabad
- *Mobile computing: a perspective*, NCRTST-15, National, JNTUHCE, Jagtial
- *An ensemble based framework for temporal data clustering (212-215)*, NCCNIS-14, National, Vasavi EngineeringCollege, Hyderabad
- *A Framework to Reduce Tradeoff between Recommendation Diversity and Quality of recommendations(189-193)*, NCEITCS-14, National, Vasavi EngineeringCollege, Hyderabad
- *Effective K-means Clustering and Fuzzy C-means Algorithm for MRI Image*, NCEITCS-14, National, Vasavi EngineeringCollege, Hyderabad
- **Events Participated/Organized**

Organized

- Organized a Refresher Course on Machine Learning and Data Science Algorithms, UGC-MMTTC, JNTUH, 08-07-2024 to 23-07-2024
- Organized a Training on Six Months Online Certificate Course on "Cyber Security", DILT(Formerly SCDE), JNTUH, Hyderabad, 25-01-2024 to 31-07-2024
- Organized a Refresher Course on Machine Learning and Data Science, JNTUH, UGC, HRDC, 11-09-2023 to 25-09-2023
- Organized a Workshop on Blockchain Technology, JN Auditorium, JNTUH UCEJ, 08-04-2023
- Organized a Refresher Course on Machine Learning and Data Science, UGC HRDC, JNTU Hyderabad, 12-12-2022 to 24-12-2022
- Organized a FDP on Advanced Machine Learning Algorithms, JNTUH HRDC, 20-09-2021 to 25-09-2021
- Organized a FDP on PHP and MySQL (By Spoken Tutorial IIT Bombay), JNTUH CEJ , Dept. of CSE, Online, 18-05-2020 to 23-05-2020

Co-ordinated

- Coordinated for a FDP on *Deep Learning Techniques*, UGC-MMTTC, JNTUH, 10-02-2025 to 15-02-2025

Participated

- Participated in a FDP on *Multi-Technology*, Anantha Lakshmi Institute of Technology and Sciences, with Brain O Vision Solutions, 28-06-2021 to 03-07-2021
- Participated in a FDP on *AICTE Soonsored Two Weeks Online FDP on Data Analytics, Artificial, Machine, Business Intelligence for Engineering and Science Applications*, Kingston Engineering College, Vellore, 22-04-2021 to 06-05-2021
- Participated in a Training on *Online Four Weeks Induction Training Programme*, Teaching Learning Centre, Central University of Rajasthan, 20-01-2021 to 16-02-2021
- Participated in a FDP on *Design and Analysis of Algorithms*, Kakatiya University, 29-12-2017 to 30-12-2017
- Participated in a FDP on *Data Science Applications and Practices in R.*, MJCET, Hyd., 13-12-2017 to 18-12-2017
- Participated in a FDP on *Introduction to Web Development.*, NIT Warangal, 13-06-2017 to 22-06-2017
- Participated in a FDP on *Big Data Analytics and Internet of Things.*, NIT Warangal, 22-05-2017 to 31-05-2017
- Participated in a Refresher Course on *Cloudera: Big Data and cloud Analytics*, UGC ASC, JNTUH, HYDERABAD, 10-11-2014 to 29-11-2014
- Participated in a Refresher Course on *Research Methodology*, UGC ASC, JNTUH, HYDERABAD, 11-06-2012 to 30-06-2012
- Participated in a Orientation Course on *Information Technology*, UGC ASC, JNTUH, HYDERABAD, 08-06-2009 to 04-07-2009
- Participated in a Refresher Course on *Data Mining and Data Warehouse techniques*, UGC ASC, JNTUH, HYDERABAD, 11-02-2008 to 01-03-2008

- ▸ **Honors & Professional Activities**

- ▸ **Professional Activities**
- ▸
Governing Body Member to the following colleges from 05-09-2020(Three Years):
1. DRK Institute of Science and Technology, Medchal, Hyderabad, Telangana
2. Nizam Institute of Pharmacy, Yadadri Bhuvanagiri, Telangana
- ▸
Kakatiya University Board of Studies in Computer Science(PG and UG) as External Member from Feb-2020 to Feb-2022.
- ▸
Member for Boards of Studies of St.Peter's Engineering College, Maisammaguda, Opp: Forest Academy, Dhulapally, Near Kompally, Medchal & Malkajgiri Dist. Hyderabad from Feb-2020 to Feb-2023
- ▸
JBIET Hyderabad-UGC autonomous intistitution - Affiliated to JNTUH- Memeber of Board of Studies in Electronics and Computer Engineering from May-2016 to May-2018.

- ▸**Teaching**
- ▸ DevOps in BTech(CSE) I sem (III Year)
- ▸ DB programming with PL/SQL in MTech(CSE) I (2022-23)
- ▸ SPPM in B.Tech(CSE) I (IV)

- ▸ **Adminstrative Positions Held**
- ▸ Head of the Department, JNTUH UCE Jagtial, 24 Apr 2023 - Present
- ▸ HOD and TPO, JBREC, 06 Dec 2004 - 30 Nov 2006
- ▸ TPO, JNTUHCEJ, 01 Dec 2015 - 06 Dec 2019
- ▸ DEPUTY WARDEN & I/C Hostel Manager, JNTUHCEJ, 12 Sep 2009 - 08 Sep 2012
- ▸ HOD, PIRMEC, 25 Sep 2002 - 05 Nov 2004

- ▸ **Project/Research Guidance**

- **Students**

Student Name	Title	Year	Download
MD.SIRAJUDDIN	Intelligent Channel Aware Malicious free Data Forwarding Scheme Over Wireless Sensor Networks	2025	
L Priyanka	Improving Communication Efficiency in Federated Learning Applications in Machine Learning and Data Mining	0	
M Laxman	Exploring Semantic Relationships for Image Captioning Without Parallel Data	0	
Ms Shabana	Detection and Classification of Osteoporosis Bone Disease in Various Severity Levels Using an Advanced Deep Learning Intelligent System	0	
ANUSHA APPARAJU	Deep Learning Based Hybrid Recommender System to provide Intelligent Product Recommendations in E-Commerce	0	
G PRASAD	Improve Efficiency of Fraud Detection in Health Insurance using Data Mining Technique	0	
DUGRUNALA RANJITH	Analysis and Design of a System for Mental Stress of Users in Social Networks using Data Mining Techniques	0	
SHANTHI PANNALA	Early stage Detection of Cardiovascular using Machine Learning	0	
Student Name	Title	Year	Download
Lubna Anjum	Trust - Based Privacy-Preserving Photo Sharing in Oinline Social Networks	2024	
Mummadi Swathi	A Multi-Modal Feature Fusion using Deep Learning Framework for Disease Classification with Smote Integration	2024	
Polsani Alekhya	Predicting Task Failure in Cloud Data Centers using Deep Learning	2024	
U. Srujana Bharathi	Chronic Obstructive Pulmonary Disease (COPD) Patient's readmission Prediction by Using Classification models in Machine Learning	2023	
K. Annapurna	Deep Reinforcement Learning Based Multipredictor Ensemble Decision Framework for Regional GDP Prediction	2023	
Srikota Harika	Reinforcement Learning Based Hyperspectral Image Classification Using Binary Entropy Method	2022	
M. Bhavani	Detecting Fraudulent Behavior in Water Consumption using Data mining	2022	
K. Moulika	A Deep Learning Facial Expression Recognition Based Scoring System	2022	
V. Sreeja	An Integrated Model to Improve Multi-Attack Classification Performance for Intrusion Detection in The internet of things Using Deep Learning Techniques	2022	
Vemula Abhishek	Identity Based Shared Data Integrity Verification With Hidden Private Information For Reliable Cloud Storage	2020	
Mittapalli Divya	Augmenting Collaborative Filtering by Extending Faceted Search	2019	
JALIGAPU LOHITH	Privacy Preserving and Content Protecting Location Based Queries	2018	
CHINTA SHIVA KUMAR	Reducing Fragmentation for In-line Deduplication Backup Storage via Exploiting Back up History and cache Knoledge	2017	
AKULA SHRAVANI	Predicting an Author's Demographic from text using Topic Modeling Approach	2017	
BASETTI KEERTHI	EFFICIENT DISTRIBUTED CLONE DETECTION IN LARGE SCALE WIRELESS SENSOR NETWORKS	2017	
KYATHAM SOUJANYA	CIRCULAR RANGE GEOMETRIC TECHNIQUES FOR SEARCHES ON ENCRYPTED DATA	2017	
V. Srujana	Telugu to English Machine Translation System	2015	
E. Ramesh	A Fast Clustering- Based Feature Subset selection Algorithm For High Dimensional Data	2014	

Contact :

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Computer Science & Engineering

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Alternate Email: sateeshbkumar@gmail.com