




K.S.INSTITUTE OF TECHNOLOGY

#14, Raghuvanahalli, Kanakapura Road, Bangalore-560109.

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|----------------------------------|---|---|
| Faculty Name | T SOMASEKHAR |  |
| Designation | ASSOCIATE PROFESSOR | |
| Educational Qualification | B.TECH(CSE) ,M.TECH(CSE),(PHD) | |
| Experience in Years | Teaching: 18Yrs | |
| Areas of Interest | Machine Learning Database Management Systems Big Data Web Technologies Artificial Intelligence Cloud Computing | |
| E-mail | somasekhar@ksit.edu.in | |

Educational Details

| Examination/ Degree | College/University | Year of Passing |
|------------------------|--|--------------------|
| UG | B.I.T Institute of Technology, JNTUA Anantapur | 2006 |
| PG | B.M.S College of Engineering, VTU, Bangalore. | 2010 |
| PhD | Visvesvaraya Technological University, Belgaum, Karnataka. | Pursuing |

Publications

Journal Publications:

1. T Somasekhar, “**Insights into Air Quality and Mixed Gas Analysis: A Machine Learning and Visualization Approach**” in the Journal of Xidian University, ISSN No:1001-2400, VOLUME 18, ISSUE 5, 2024,
2. T Somasekhar, “**Predicting Network Security Using Machine Learning**” in the journal of UGC Approved: Journal of Xidian University, ISSN No:1001-2400, VOLUME 18, ISSUE 4, 2024 Link: <https://doi.org/10.5281/Zenodo.11098310>
3. T Somasekhar, “**Survey on Air Pollution in India: Insights. Predictions and Mixed Gas Analysis for an Improved Future**” in the International Journal for Research in Applied Science & Engineering Technology, DOI: 10.22214, Paper Id : IJRASET56770, Vol 11, Issue XI, Nov 2023, ISSN: 2321-9653

4. T Somasekhar, “**Safeguarding Connections: Machine Learning Powered Intrusion Detection**” in the International Journal for Research in Applied Science & Engineering Technology, DOI: 10.22214, Paper Id : IJRASET56689, Vol 11, Issue XI, Nov 2023 , ISSN: 2321-9653
5. T Somasekhar, “**A Two- Stage Convolutional Neural Network for Lung Nodule Detection**” in the International Advanced Research Journal in Science, Engineering and Technology, Vol 10, Issue 2, Feb 2023, DOI:10.17148/IARJSET.2023.10218 ISSN (ONLINE) 2393-8021, ISSN (PRINT) 2394-1588
6. T Somasekhar, “**Identification of Medicinal Plants by Image Processing of Leaf Samples**” International Research Journal of Modernization In Engineering Technology And Science (IRJMETS), Vol 05, Issue 02, Feb 2023, e - ISSN 2582-5208, Date: 25/02/2023

Conference Papers :

1. T Somasekhar, “**Quality Assessment System for Air Pollution Control in India through calibration and Machine Learning Algorithm**” in the International Conference on Intelligent Systems & Computation (ICISC – 2022),6th – 7th May 2022, at Poornima Institute of Engineering & Technology, Jaipur.
2. Mr. Somasekhar T, “**An Innovative approach for air pollution control In India using Convolutional Neural Network**”NCRIE – 2022, 24th – 25th Jun 2022, ISBN : 978-81-929425-1-3, KSIT, Bangalore .
3. Mr. Somasekhar T, ” **Mental Disease Prediction in brain Images Using Deep Learning**” NCRIE – 2022, 24th – 25th Jun 2022, ISBN : 978-81-929425-1-3, KSIT, Bangalore .
4. Mr. Somsekhkar T, “**A Dictionary-based methodological approach for early prediction of Diabetes using Machine Learning Models**” NCRIE – 2022, 24th – 25th Jun 2022, ISBN : 978-81-929425-1-3, KSIT, Bangalore

Contact Details

Name: T Somasekhar

Official Address: KSIT, #14, Rghuvanalli, Kanakapura Main Road, Bengaluru-109

Alternate Email: somasekhart@ksit.edu.in