Y NARASIMHULU

Research Scholar ⋄ University of Hyderabad

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GitHub: https://github.com/Narasim

EDUCATION

Ph.D.   Jan 2019 - July 2024

· Pursuing Ph.D. at **School of Computer and Information Sciences(SCIS), University of Hyderabad**, Hyderabad.(Almost at the ending stage)
Thesis Title: Design, Study, and Analysis of Classification Algorithms.

M.Tech

· Post Graduation (Computer Science), from **St.John's College of Engineering and Technology**, JNTU-Anantapur, Yemmiganur.

ACHIEVEMENTS

. Member of a winning team from the University of Hyderabad: Cardiff University's CyberAI Research Challenge in collaboration with the University of Hyderabad and Osmania University.
Title: Privacy Preserving Federated Learning on Healthcare Data
Further extending this work into a Journal Publication.

S.No.	Board and Exam	Award	Qualifying Year
1	UGC - NET	Junior Research Fellow(JRF)	July - 2018
2	UGC - NET	Assistant Professor	July - 2018
3	UGC - NET	Assistant Professor	December - 2017
4	UGC - NET	Assistant Professor	June - 2014
5	GATE	Computer Science	2019

RESEARCH EXPERIENCE

. A **Senior Research Fellow** from January 2021 to Present at University of Hyderabad.
. A **Junior Research Fellow** from January 2019 to December 2020 at University of Hyderabad.

RESEARCH INTERESTS

· Clustering	· Classification
· Nearest Neighbors	· Deep Learning
· Matrix Approximations	· Optimization Algorithms

CERTIFICATIONS

· **"Foundations of Data Science"**, by One Fourth Labs - Mitesh M Khapra, and Pratyush Kumar, IIT Madras Research Park.

· **"Deep Learning"**, by One Fourth Labs - Mitesh M Khapra, and Pratyush Kumar, IIT Madras Research Park.

PAPERS PUBLISHED/UNDER REVIEW

1 **Y Narasimhulu, V China Venkaiah, "ActiveSVM: An Active Learning Algorithm With Novel Initialization, and SVM Model Update Techniques"**, Manuscript communicated to the Journal, Advances in Data Science and Adaptive Analysis, World Scientific.

2 **Y Narasimhulu, Pralhad K, V China Venkaiah, "Revisiting Winnow: A Modified Online Learning Algorithm for Efficient Binary Classification"**, Manuscript accepted by, Statistical Analysis and Data Mining, Wiley.

3 **Y Narasimhulu, V China Venkaiah, "Low-rank Binary Matrix Approximation using SVD Based Clustering Technique: Detecting Autism Spectrum Disorder (ASD)"**, accepted by SN Computer Science Journal, Springer Nature(Impact Factor: 3.78).

4 **Umesh Kumar, Y. Narasimhulu, V. Ch. Venkaiah, "MQG-PRNG and Non-Associative Quasigroup based Stream Cipher"**, Communicated to a Journal.

5 **M. S. Raghavendra, P. Chawla and Y. Narasimhulu, "A Probability Based Joint-Clustering Algorithm for Application Placement in Fog-to-Cloud Computing,"**, 2021 9th International Conference on Reliability, Infocom Technologies and Optimization (Trends and Future Directions) (ICRITO), Noida, India, 2021, pp. 1-5, doi: 10.1109/ICRITO51393.2021.9596534(SCOPUS Indexed).

6 **Y Narasimhulu, Ashok Suthar, Raghunadh Pasunuri, V China Venkaiah (2021), "CKD-Tree: An Improved KD-Tree Construction Algorithm"**, Published in Proceedings of the International Semantic Intelligence Conference 2021(ISIC 2021), CEUR Conference Proceedings(CEUR-WS.org)(SCOPUS Indexed: https://www.scopus.com/sourceid/21100218356).

7 **Narasimhulu Y, Pasunuri R., Venkaiah V.C. (2021), "Nearest Neighbors via a Hybrid Approach in Large Datasets: A Speed up."**, In: Chaki N., Pejas J., Devarakonda N., Rao Kovvur R.M. (eds) Proceedings of International Conference on Computational Intelligence and Data Engineering. Lecture Notes on Data Engineering and Communications Technologies, vol 56. Springer, Singapore(SCOPUS Indexed: https://www.scopus.com/sourceid/21100975545).

8 **Vardhani P.R, Priyadarshini Y.I., Narasimhulu Y. (2019), "CNN Data Mining Algorithm for Detecting Credit Card Fraud."**, Published in Soft Computing and Medical Bioinformatics. SpringerBriefs in Applied Sciences and Technology. Springer, Singapore(Web of Science Indexed: https://www.webofscience.com/wos/woscc/full-record/WOS:000445142100010).

9 **K.Vinod Kumar Reddy, Y. Narasimhulu, "Proficiently Sharing Data Using Name Based Routing Algorithm in Big Data."**, Published in International Journal of Trend in Research and Development (IJTRD), ISSN:2394-9333, Special Issue - RIET-17 , December 2017(UGC-Care List).

CURRENT WORKS

. Deep Learning: Transformers, LLama
. A survey on various Online learning algorithms
. Privacy Preserving Federated Learning

MY PEER REVIEWS

IEEE Access: IEEE Journal

1 A K-Means-Based Interpolation Algorithm with Lp-Norm and Feature Weighting
2 Assessing Decision Tree Stability: A Com-prehensive Method for Generating a Stable Decision Tree
3 Credit card fraud detection based on improved Variational Autoencoder Generative Adversarial Network.
4 Revolutionizing Perimeter Intrusion Detection: A Machine Learning-Driven Approach with Curated Dataset Generation for Enhanced Security.
5 Integrating Unsupervised Clustering and Semi-Supervised Learning for Faulty Insulator Classification.

6 Hyper Robust H-infinity Filter and PSO-SVM Based Monitoring of Power Quality Disturbances system.
7 Anchor Pseudo-supervise Large-scale Incomplete Multi-view Clustering.
8 Mobility Data Science
9 High-Accuracy Feature-Centric COVID-19 Prediction Using Optimized Union Ensemble Approach
10 Distributed Feature matching for Robust Object Localization in Robotic Manipulation

Neural Computing and Applications: Springer Journal

1 Streamlining Plant Disease Diagnosis with Convolutional Neural Networks and Edge Devices.

Soft Computing: Springer Journal

1 Multimedia Protection and Abnormal Behaviour Identification in SDN Using Cuckoo Search Based One Class Support Vector Machine.

Reviews details can be found at: Web of Science or ORCID

CONFERENCES ATTENDED

· **"ACM COMPUTE, Sixth Annual Conference"**, at University of Hyderabad, Hyderabad, India 2023. Also a volunteer in the organising committee.
· **"International Semantic Intelligence Conference(ISIC - 2021)"**, at MERI College of Engineering & Technology, New Delhi, India 2021.
· **"Third International Conference on Computational Intelligence & Data Engineering (ICCIDE - 2020)"**, at Vasavi College of Engineering(Autonomous), Hyderabad, Telangana, India 2020.
· **"Second International Conference on Cognitive Science and Articial Intelligance(ICCSAI - 2018)"**, at Sree Vidhyanikethan Engineering College(Autonomous), Tirupati, Andhra Pradesh India 2018.

TECHNICAL STRENGTHS

· **Computer Languages:**	C, and Python
· **Programming**	Numpy, Pandas, Keras & sklearn

EXTERNAL LINKS

. LinkedIn:	https://www.linkedin.com/in/narasimhulu-yeggoli/
. GitHub:	https://github.com/Narasim
. ORCID:	https://orcid.org/0000-0001-8482-7678
. Google Scholar:	https://scholar.google.com/citations?user=agFT18IAAAAJ&hl=en
. LeetCode:	https://leetcode.com/narasimhuluy/

CAMPUS TRAININGS CONDUCTED

· 22 Days training on **'Data Structures and Algorithms'** at 'Shri Ramdeobaba College of Engineering and Management', Nagpur, Maharastra.
· 15 Days training on **'Problem Solving Skills'** at Mohan Babu University(MBU), Tirupati.
· An Andhra Pradesh State Skill Development Corporation 2 day training programme on **'C-Programming and Data Structures'** at 'QIS College of Engineering & Technology', Ongole.

· An Andhra Pradesh State Skill Development Corporation 1 day campus training programme on **'C-Programming and Data Structures'** at 'QIS College of Engineering & Technology', Ongole.

DECLARATION

Hereby declare that the information furnished above is true.

Y NARASIMHULU