

VNR VIGNANA JYOTHI INSTITUTE OF ENGINEERING & TECHNOLOGY

KNOWLEDGE ASSET 2022-23

Name: Dr. N.Nirmalajyothi
Designation: Assistant professor
Department: CSE - AIML & IOT
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Experience (in years): Teaching: 13.4
AICTE ID: 1-2192049479

Research: 3.4
DoB: 30-05-1982

1. Educational / Technical qualifications:

S.No	Level (UG / PG / Ph.D)	Year of passing	Specialization
1.	Ph.D.	2022	CSE
2.	M.TECH	2010	CSE
3.	M.Sc	2005	CS
4	B.Sc	2003	CSE

2. Teaching and Learning:

2.1. Teaching Interests: Machine Learning, C programming, Data structures, Operating System, Data Mining Data Warehousing, JAVA Programming, Computer Networks, Compiler Design etc.

2.2. Novel Teaching & Learning Techniques adopted: Learning by doing

2.3. Involvement in curriculum updating / Design: Framing the syllabus

3. Co-curricular and Extra-Curricular Activities

3.1. Interests and Hobbies:

- Browsing internet for research articles and Reading Books.
- To motivate students towards research and publication.

3.2. CCA/ECA Organized: Guest Lecture on “Generative AI: Unleashing Artificial Creativity with ChatGPT

3.3. CCA/ECA participated:

- Contributed as a mentor in smart India Hackathon-2017 conducted by AICTE-2017 at nodal center SSK college of engineering in Chennai.
- Acted as Internal Smart India Hackathons Judge
- Acted as Internal Krithomedh Ideathon-2023 Judge
- Acted as Internal Hackathon for KAVACH-2023

3.4. Counseling and Mentoring Activity: Mentor for II year B.Tech Students

3.5. Committees involved in:

- Professional Society
- Department NAAC Coordinator
- Major Projects Coordinator

4. Conference / Workshop / Seminar / Guest Lectures:

4.1. Conducted:

- Organized A Five-day Faculty Development Programme on Data Science and Analytics”, Aurora’s Technological & Research Institute, Hyderabad, 30th June to 3rd July, 2018.
- Organized a Guest Lecture on “Generative AI: Unleashing Artificial Creativity with ChatGPT at VNR VJIET

4.2 Attended:

1. Topper in 8 week NPTEL Certification on “ Big data computing “, from Aug-Oct,2023
2. Completed 8 week NPTEL Certification on “Data Analytics with Python” from Jan-April,2023
3. A Faculty Development Program on Accelerate Research, Anurag University from 14-3-2023 to 18-03-2023.
4. A Grant Writing workshop, VNR VJIET from 17-7-2023 to 18-7-2023.
5. Participated in Two days NAAC sponsored work shop on “Enriching Quality of Academics & Research in Relevance to NEP-2020”, on 24th & 25th Feb 2023, organized by VNR VJIET, Hyderabad, T.S.
6. Participated in One Week FDP on “Natural Language Processing (NLP)”, 13th to 17th February, 2023, Organized by Department of CSE (AIML & IOT), VNR VJIET.
7. Attended FDP on “Accelerate Research “, conducted by Dept. of Information Technology, Anurag University during 14th - 18th March 2023.
8. Attended AICTE-CSVTU One Week Joint Teachers Training Program (TTP-2021) in “Recent Advancements in Machine Learning and Artificial Intelligence”.
9. Participated in the IETE knowledge sharing sessions (KSS)-37: Webinar-59 on “Efficiency Machine Learning Algorithms in Solving Complex Problems”, 8th August, 2021.
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10. Attended One-Week National Level Online Faculty development programme on “Multi-Technologies” conducted by MVSR Engineering College, Department of Computer Science & Engineering in Collaboration with Brain O Vision and National Youth Council of India, from 28th June 2021 to 3rd July

2021.

11. Participated in Online Faculty development programme on “Deep Learning Concept and Applications”, organized by NRI Institute of Technology, Agiripalli, A.P, from 11th-14th June 2020.
12. Attended AICTE Sponsored Two-Week Faculty development programme on “Data Sciences & Analytics” at St. Martin’s Engineering College, Hyderabad, from 9th- 21st December-2019.
13. Attended Faculty development programme on "Cloud Computing" conducted by Malla Reddy College of Engineering and Technology, JNTUH, Hyderabad.
14. Participated in the International Conference on "Latest Trends in New Era of Engineering, Science, Arts, management, Agriculture Law, Pharmacy and Medical Science" conducted by IIAR on 25th & 26th February, 2018, Hyderabad.
15. Attended Workshop on "Effective Methods of Teaching for Engineering Faculty", Organized by IPE Section, Hyderabad.
16. Attended National level Workshop “Harassment of Women at Workplace in India” Organized by JNTUH, Hyderabad.
17. Attended National level Workshop on "Recent Trends and Research Opportunities in Big Data" at Vasavi College of Engineering, Hyderabad.

5. Academic Contribution and Research & Consultancy:

5.1. Invited Lectures:

5.2. Articles / Chapters published in Books:

- Data Science Revealed and Challenges for 21st Century, Scientific International Publishing House, India, November 2022, ISBN:978-93-5625-550-0.

5.3. Books published as single author or as editor:

5.4. Projects Guided:

- a) UG: 15
- b) PG: 6

5.5. Research Interests: Machine Learning, Deep Learning, Cloud computing

5.6. Ph.D. students:

- a) Enrolled:
- b) Submitted:
- c) Awarded:

5.7. Papers published in reviewed Journals:

S.No	Title of the Paper	Journal Name Vol. No. PP	ISBN/ISSN No.	Impact Factor/ Citation Index	National/ International
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	Ameliorating Heart Diseases Prediction using Machine Learning Technique for Optimal Solution	International Journal of online biomedical engineering	2626-8493		International
	Evaluating the Efficacy of Resampling Techniques in Addressing Class Imbalance for Network Intrusion Detection Systems Using Support Vector Machines	Ingénierie des systèmes d information (Publisher- IETA)	2116-7125		International
	Cloud computing enabled business model innovation	The Journal of High Technology Management Research	1879-1638		International
	Empowering Health Surveillance: A Machine Learning Based Risk Alert System	Proceedings of Third International Conference on Smart Generation Computing, Communication and Networking (IEEE)			International
1	Hybrid Intrusion Detection Method based on Constraints Optimized SAE and Grid search based SVM-RBF	International Journal of Computer Networks and Applications, Volume 8, Issue 6, November – December (2021)	2395-0455	0.6	International
2	Investigative Study of the effect of various Activation functions with Stacked Autoencoder for Dimension Reduction of NIDS Using SVM	International Journal of Advanced Computer Science and Applications, Vol. 12, No. 5, 2021	2156-5570	1.8	International
3	Performance Analysis of Different Activation and Loss Functions of Stacked Autoencoder for Dimension Reduction for NIDS on Cloud Environment	International Journal of Engineering Trends and Technology, Volume 69 Issue 4, 169- 176, April 2021.	2231 – 5381	0.6	International
4	Performance of Various SVM Kernels for Intrusion Detection of Cloud Environment	International Journal of Emerging Trends in Engineering Research, Volume 8, pp. 3669-3675,	2347-3983		International

		October 2020.			
5	Mining text by inventory pattern	International Journal of Engineering Science and Research , Volume-3, Issue-7	2277-2685		International
6	Public Auditing System for Data Storage Security in Cloud Computing	International Journal of scientific Engineering and Technology (IJSETR), Vol.03,Issue.33 October-2014, Pages:6673-6676	2319-8885	Impact factor: 5.72	International
7	A Secured Framework for Protecting Sensitive Information from Unauthorized Users	International Journal of scientific Engineering and Technology (IJSETR), November, Vol.04,Issue.47, November-2015, Pages:10112-10115	2319-8885	Impact facto :5.72	International
8	Extracting User Search Goals by Conceptually Related Feedback Sessions	International Journal of Science Engineering and Technology Research (IJSETR), VOL-3-ISSUE-12-3403-3409	2319-8885	Impact facto :5.72	International
9	Secured Data De-Duplication in Networking Cloud	International Journal of Research, Vol-02, Issue-10,October -2015	2348-6848	Impact factor: 5.6	International
10	Parallel Edge projection and Pruning (PEPP) Based sequence Graph Protrude Approach for Closed Item set Mining	International Journal & Magazine of Engineering , Technology, Management and Research, Volume No:2, Issue No:12,Dec-2015	2348-4845	Impact facto :3.5	International
11	An innovative utility for information scale of detail and reducing outliers	International journal of reviews on recent electronics and computer science (IJRRECS), August 2016/Volume-4/Issue-8/6347-6353	2321-5461		International
12	Privacy Preserving IOT Applications in Smart Home: A Generic Framework	International Journal of Research (IJR), March 2018	2348-6848	Impact facto :5.6	International

5.8. Papers presented at National / International Conferences:

S.No	Title of the Paper	Names of the Conference/ Seminars	National/ International	Period
1	Empowering Health Surveillance: A Machine Learning Based Risk Alert System	Proceedings of Third International Conference on Smart Generation Computing, Communication and Networking (IEEE)	International	2023
2	Supervised Learning Approach for Detection of Malicious Nodes	5 th International Conference on Intelligent Communication Technologies and Virtual Mobile Networks - (IEEE)	International	2024

5.9. Sponsored research Projects: NIL

S.No	Title	Agency	Period	Grant amount	Ongoing / Completed

5.10 Consultancy Projects:

Patents:

- Digitized Image Processing Technique for Traffic Jam Modification, Chennai, Application No. 202141062057 A, 04-1-2022.

6. Awards / Honors received:

- Received Teaching Excellence Award from Aurora's Technological & Research Institute, Hyderabad
- Received Received Outstanding Contribution Award from Aurora's Technological & Research Institute, Hyderabad.
- Qualified APSET-2017 in open category, Computer Science and Applications.
- Qualified TSSET-2017 in open category, Computer Science and Applications.
- NPTEL Elite Silver certification in “Data Analytics using Python”, April-2023.
- NPTEL Certification in “Introduction to Machine Learning”, July-2022
- NPTEL Elite Silver certification in “Programming, Data Structures and Algorithms using Python “, Mar-2022.
- Coursera certification in “Machine Learning with Python”, Nov-2022 through IBM skills Network.
- Elite certification in Data Mining-2019, NPTEL- online Certification program.
- Elite certification in Cloud Computing-2019, NPTEL- online Certification program.
- Topper in MTech (CSE)-2010

7. Motto: Strive for Excellence