Name : Dr. C KIRAN MAI

Designation : Professor

Department : Computer Science & Engineering

Mail ID : <u>ckiranmai@vnrvjiet.in</u>

Experience (in years) : Teaching: 22 Research: 5 Industry: 7



1. Educational / Technical qualifications:

S.No	Level (UG / PG / Ph.D)	Year of passing	Specialization
1	Ph.D	2007	Computer Science
2	M. S	1999	Software Systems
3	B.Tech	1985	ECE

2. Teaching and Learning

- 2.1 Teaching Interests: Knowledge Engineering, Data Warehousing, Data Mining, Database Management Systems.
- 2.2 Novel Teaching & Learning Techniques adopted: WIT & WIL, Blooms Taxonomy, PPT's
- 2.3 Involvement in curriculum updating / Design: UG- DBMS, PG Data Analytics Course structure Design for B.Tech (CS-DS)

3. Co-curricular and Extra-Curricular Activities

- 3.1 Interests and Hobbies: Listening to old melodies, Reading Books.
- 3.2 CCA/ECA Organized: NIL
- 3.3 CCA/ECA participated: 5
- 3.4 Counselling and Mentoring Activity: Regular counselling the students, especially slow learners.
- 3.5 Committees involved in

Department Level: Development Committee, Academic Committee and Board of Studies.

Research Committee

Institution Level: IQAC

4. Conference / Workshop / Seminar / Guest Lectures:

4.1 CONDUCTED

- 1. Three-day short-term Intensive Course on "Software Project Management" in February 2006 at VNRVJIET, Hyderabad.
- 2. Three-day workshop on "Data Warehousing Tools & Technologies" from 21st 23rd September, 2007 VNRVJIET, Hyderabad.
- 3. Two-day workshop on "Research Methodology & Data Analysis" from 26th to 27th December. 2008 at VNRVJIET, Hyderabad.
- 4. Conducted AICTE sponsored Staff development programme on "Advanced Datamining Techniques" from May 12th to 26th 2012.

- 5. Organizing Chair for the International conference on Data Science conducted in VNR VJIET from Feb 26 28, 2014.
- 6. Three-day workshop on "Emerging Trends in social Media and Mobile Applications" from $13^{th} 15^{th}$ November, 2014.
- 7. Two-day workshop on "Recent Trends in Compiler Construction Tools" from $26^{th}-27^{th}$ March, 2015
- 8. AICTE-ISTE sponsored Refresher / Induction Program on "Intelligent Computing and Deep Learning" from 14th 19th May, 2018.

4.2 ATTENDED

- 1. Two-day workshop conducted by GRIET on "Computer Organization" in the year Oct 2002.
- 2. One-day tutorial on "Content Based Image Retrieval" conducted by Department of Computer 7 Information Sciences, UOH on 30th November, 2002.
- 3. Five-day Short-term Intensive course on "Object Oriented Analysis and Design using UML "conducted by VNR VJIET from 27th April to 1st May 2004.
- 4. One-week refresher course on "Spatial Data mining" conducted by JNTU, Dec 2004.
- 5. One-day work shop on "Rough sets & K-maps" conducted at HCU in June 2005.
- 6. 2-day Workshop on "Genetic Algorithms" conducted by VNR VJIET in 2007.
- 7. One-day seminar on "Mentor training programme in IT" conducted by IIIT Hyderabad in Oct 2008.
- 8. Project expo conducted by IIIT Hyderabad every year.
- 9. Colloquium on Computational Intelligence, organized by Dept of Computer and Information Science, University of Hyderabad 2010.
- 10. Data warehousing & Data mining at JNTUH conducted by IIIT Hyderabad, in March 2009.
- 11. Attended workshop on WEKA tool conducted by the IT department, VNR VJIET in the month of December 2011.
- 12. Attended the pre-Conference (T4U IEEE Conference conducted by IIIT-H from 18th 20th July 2012) seminar on 'Evaluating the effective use of emerging Technologies in Education' on 16th July 2012 at VJIM.
- 13. Attended the IEEE conference on Technology for Education on 18-20th July 2012, at IIIT, Hyderabad.
- 14.One-day work shop on "Improving Student outcomes through guided Inquiry Activities" at VNR VJIET on 23rd of July 2012, by Prof Cliff Kussmaul, from Muhlenberg College, USA.
- 15. Attended a spiritual talk on 'Values and Ethics for Teenz born after 1990's' at VJIM delivered by Sri The Venerable Tenzin Priyadarshi, Director of The Dalai Lama Center for Ethics and Transformative Values.
- 16. Attended one day seminar on 'Intro to POGIL' conducted at VNR VJIET on 16th February 2013.
- 17. Attended a 2-day session on 'Creativity of Teaching' conducted at VNR VJIET on 27th & 28th February, 2013.

- 18. Attended a 3-day workshop on 'Instructional Design for E-Content' conducted by BRITISH COUNCIL, VNR VJIET and Enhance Edu IIIT 21st 23rd February 2013.
- 19. Attended 3-day workshop on "Advanced Topics in Text and Web Mining" conducted by EnhanceEDU, IIIT Hyderabad from April 24 26, 2013.
- 20.Attended one day workshop for "Training Resource Persons on Outcome Based Accreditation Phase I' conducted by JNTU H on 29th April 2013
- 21. Attended five day National workshop on 'CHALLENGES IN BIG DATA RESEARCH' conducted by Department of Computer Engineering, Malavia National Institute of Technology (MNIT), Jaipur, from 9 13th November 2013.
- 22. Attended 2nd Joint Review Mission (JRM) / Mid Term Review (MTR) by Government of India / NPIU and World Bank for Project TEQIP-II on 5th December 2013.
- 23. Participated in The 5th IEEE International Conference on Technology for Education, T4E 2013, held at the Indian Institute of Technology, Kharagpur, during December 18-20, 2013.
- 24.Two-day DEAN SUMMIT 2015 conducted by DELOITTE from April 16 17, 2015.
- 25. Attended one day workshop on Implementation of Choice Based Credit System, on 3rd July 2015, conducted by Academic Staff college, JNTUH.
- 26.Attended 5th Joint Review Mission (JRM) / Mid Term Review (MTR) by Government of India / NPIU and World Bank for Project TEQIP-II on 7th July2015.
- 27. Attended one day workshop on "Quality Practices in Technical Education Challenges" at, G.Pullaiah college of engineering on 29.12.15.
- 28. Attended Third International Conference on Transformation in Engineering Education (ICTIEE 2016) Conducted by Poona college of Engineering, Poona from 8-12th Jan 2016.
- 29.One day workshop on OBE Going Beyond Accreditation & Compliances, as part of the ICTIEE 2016 conference.
- 30.Gave a presentation at UGC, New Delhi for College with Potential Excellence was successful in getting this recognition to the institute.
- 31.Two-day DEAN SUMMIT 2016 conducted by DELOITTE from May 09 10, 2016.
- 32.One-day workshop on DATA ANALYTICS conducted as a prelude to the 7th IEEE International Advance Computing Conference, at VNR VJIET, from 5 7 January 2017.
- 33.One week Meit Y, Govt of India, sponsored Faculty Development Programme (FDP) on "Data Analytics with R" organized by the E & ICT Academy, NIT, Warangal at VNR VJIET from $15^{th} 20^{th}$ May 2017.
- 34. Three day workshop on UML Tools, Conducted in VNR VJIET, August'2017
- 35. Three day workshop on Big data techniques and tools, conducted in VNR VJIET FROM 13 15TH December 2017.
- 36. 6 weeks Refresher course on "Mentoring Educators in Education Technology", conducted by IIT-Mumbai, from 17th May 27th June 2018.

- 37. 3-day workshop on 'Hadoop Framework & Big Data Tools', conducted at VNR VJIET from 27th September'2018.
- 38.One week Faculty Summer Training Program on 'Machine Learning' conducted at VNR VJIET from 20th 25th May' 2019.
- 39. Online Course on "Introduction to Python" from DATACAMP, May2020
- 40.One week Faculty Development Program on "Linux Foundation and Implementation of DataStructures" Conducted at VNR VJIET from 11th 16th May 2020.
- 41.Faculty Awareness Program on "Outcome Based Education and NBA Accreditation" organized by Sinhgad Institute of Technology and Science, Pune on 12th May 2020.
- 42.One week Faculty Development Program on "Python for Machine Learning" Conducted at $VNR\ VJIET\ from\ 18^{th}-23^{rd}\ May\ 2020.$
- 43.One week Faculty Development Program on "Industry Expectations from DataMining and Block Chain Technologies" conducted at VNR VJIET from 25th 29th May 2020.
- 44.40 Hrs, ONLINE Faculty development program on "DATA SCIENCE for ALL" conducted by NIT Warangal, IIITDM Jabalpur and NIT Patna during 27th July to 8th August 2020.
- 45. One Week Online FDP on "Outcome Based Education A Continuous Quality Improvement of the Programme" conducted by Department of CSE, Sagi Rama Krishnam Raju Engineering College, Bhimavaram, Andhra Pradesh during 17th 21st August 2020.
- 46. One week AICTE sponsored STTP on "Machine Learning and Deep Learning Techniques for Artificial Intelligence using Python"- **Series 1**, conducted by Department of Information Technology, from 16 21st November 2020.
- 47. One week AICTE sponsored STTP on "Machine Learning and Deep Learning Techniques for Artificial Intelligence using Python" **Series 2**, conducted by Department of Information Technology, from 14 19th December 2020.
- 48. 6 week PDP on Introduction to AI, conducted by CSE department, VNR VJIET from 22nd February to 8th April 2021.
- 49. One week FDP on Recent advancements in Machine Learning and Deep Learning, conducted by CSI Chapter, VNR VJIET from 26th April to 1st May 2021.
- 50. 2 week FDP on Data Science for ALL, organized jointly by all E&ICT Academies from 12th 23rd April 2021.

WEBINARS ATTENDED:

S.no	Title	Conducted by	Speaker	Date
1	LATEX-A Scientific	IEEE and ECE	Inhouse Faculty	21st May
	Documenting Tool	Dept, VNR VJIET		2020
2	Designing a Solution	Future Tech, USA	Mr Prashanth Sahoo	30 th May
	to Integrate			2020

	Blockchain with COVID-19 Pandemic			
3	Women Leaders – The Change Makers	Chennai Institute of Technology	Dr Lalitha Christie Senior Scientist,DRDO	11 th July 2020
4	Transforming Higher Education	ASSOCHAM	Experts from reputed institutes	18 th September 2020
5	Towards Smart Health Care and Smart Cities – Role of Artificial Intelligence	VNR CSI-SC & IEEE-CS	Dr SriRam, USA,	3 rd October 2020
6	The path to a sustainable future	IT IIM Sirmaur	Faculty, IT IIM Sirmaur	28 th October 2020
7	Making Bitcoin Quantom: A crypto currency based on Law of Physics	IEEE - SA	Dr. Jonathan Jogenfors Hacker and a Senior Information Security Consultant, Atea AB	4 th November 2020
8	AI Transformation in Higher Education: Significance of Personalized Learning in Higher Education	ASSOCHAM	Experts from reputed institutes	10 th November 2020
9	AI in HealthTech	T - HUB	Industry Experts	20 th November 2020
10	Mechanisms to assess student progress towards job readiness. Role of tech & blended	BW Education Presents Thoughtful Tuesday	Academicians from reputed institutes	15 th December 2020
11	Rethinking Education - Live interaction	AICTE in collaboration with ART of living.	Shri Ravi Shankarji, ART of living, Chairman and Vice Chairman AICTE	15 th February 2021
12	Building Digital Resilience in Higher Education	BW Education	Dr D N Rao, Vice Chancellors, CEO- Course Era	26 th February 2021
13	Empathetic and technopedagogical approaches for the new-normal	FDC-AICTE	Dr Prathima Khandelwal	4 th May 2021

14	Q&A for Healthcare Professionals and Families in India	Stanford Department of Medicine	Panel of Doctors	13 th May 2021
15	The making of Indian IT - Engineering new Services	Live History India	Dr Mohan Reddy, Chairman, Cyient	15 th May 2021
16	Social Media Analytics	CSI, VNR VJIET	Dr A V Krishna Prasad	21 st May 2021
17	Revisiting our teaching philosophies in online environs	IEEE Hyderabad section	Dr Jyotsna Cherukuri, VNR VJIET	22 nd May 2021
18	Traffic prediction for intelligent transportation	CSE, VNRVJIET and PANTECH – EBYTES 2021	Ms. Sabha, PANTECH	28 th May 2021
19	5G Technology and Deployment across globe	AICTE, New Delhi	Prof. Hara Govind, AICTE	28 th May 2021
20	Impact of Covid-19, Anxieties and Fears - Myths and Facts	H & S dept, VNR VJIET	Dr Jagan Mohan Reddy & Team, SLG hospitals	29 th May 2021
21	Higher Education in India Post COVID- 19, AICTE	SRM, Andhra Pradesh	Dr Anil Sahasra Budhe, Chairman, AICTE	5 th June 2021
22	Knowledge sharing session on Deep Learning and its applications	CSI, VNR VJIET	Dr Radhakrishna, NIT warangal	11 th June 2021
23	Student Centered Learning	NITTTR and IEEE	Dr Umashankar Sahu, Associate Professor, NITTTR	15 th June 2021
24	Webinar on 'Women in Engineering as Heros - Leading from Front', conducted by IEEE Hyderabad section.	IEEE Hyderabad section	Women from various frontiers leading the organizations	23 rd June 2021
25	The Role of Teachers in Fostering Engagement in a Hybrid Learning Environment	VIEW SONIC on Education Leadership Platform	Principals of various institutions, Nation wide	26 th June 2021

5.1. Invited Lectures

S. No	Title of Lecture/ Academic Session	Title of Conference / Seminar	Organized by
1.	Data Mining tools	Data mining: Emerging Technologies	Vignan's Lara Institute of Technology and science, Vadlamudi, Guntur on 16 th & 17 th December 2011
2	Grid Computing	Advanced Computing Methodologies	GRIET, held on 2 nd & 3 rd August 2013
3	Application of E-Learning in Engineering Education	Transformation in Engineering Education	ICTIEE 2016
4	Education system in India related to computer science degrees	Lecture at US Consulate, Hyderabad	U.S. Consulate General, Hyderabad, India on 08th March 2017.
5.	Quality Initiatives in Technical Institutes	FDP on Curriculum Design and Quality Initiatives in Community Development"	Dr.N.G.P. Arts and Science College, Coimbatore from 3rd – 9th December'18

- 5.2. Articles / Chapters published in Books: TWO
- 5.3. Books published as single author or as editor: TWO
 - a. Learning and Analytics in Intelligent Systems Springer (January 2021)
 - b. Machine Learning Technologies and applications Springer (March 2021)
- 5.4. Projects Guided:

a) UG: 46

b) PG: 20

- 5.5. Research Interests: Data Engineering and Networking
- 5.6. Ph.D students:

a) Enrolled: 4

b) Submitted: Nil

c) Awarded: Nil

5.7. Papers published in reviewed Journals:

S.no	Title	Journal	Year	ISSN	Impact

1	The Feasibility Study for Land Suitability Using GIS Tools	International Journal on Environment, Cultural, Economic & Social sustainability, July, 2009	2009	1832-2077	
2	Hypothetical Description for Intelligent Data Mining 1	International Journal on Computer Science and Engineering, vol 2, Issue 7, Oct 2010	2010	2229-2631	
3	Drag and Drop: Influences on the Design of Reusable Software Components	International Journal on Computer Science and Engineering, vol 2, Issue 7, Oct 2010, 2386 - 2393	2010	2229-2631	
4	Breaking Boundaries for Software Component Reuse Technology	International Journal of Computer Science and Network Security, Oct 2010	2010	1738-7906	
5	Technical Impediments to Software Reuse.	IEEE Transaction on Software Engineering, 2010	2010		1.5
6	A Comparative study of Manual and Automated System for Wireless Networks	International Journal of Systems & Technologies (IJST)-2010	2010	0974-2107	
7	A Study On Peer Relative Market Strength Extraction	Research Journal Of Computer System Engineering, Volume 2, Issue 2, June 2011	2011	2230-8563	
8	An Impudent Approach for Intelligent Data Mining using Rough Set Theory	International Journal of Software Engineering. Volume 2, November (2011), pp. 1-10	2011	1687-6954	

9	Speech Synthesis System for Telugu Language	International Journal of Computer applications IJCA,Volume 81,No5, November -2013	2013	0975-8887	3.15
10	EPR and its effectiveness in Higher education	International Journal for Information Technology and Research. Vol.3, Issue 4,July 2015	2014	1938-7857	
11	Searching web through query routing plan	International Journal of Research in Engineering and Technology. Vol.3, Issue 1, September, 2015	2015	2321-7308	
12	WIT & WIL Methodology for Effective Teaching and Learning with Teacher-Student Academic Plan – A case study.	Journal of Humanities and Social Sciences, Volume.21, Issue:6, May, 2016	2016	2220-8488	
13	Mutable Order Preserving Encoding For Secure Data Query Processing	International journal of Innovative Technologies and research, Volume 4, Issue 15, October, 2016, Pg. 2895 – 2900	2016	2320-5547	
14	ESDAS : Explorative Spatial data Analysis Scale to Predict Spatial Structure of Landscape	International journal for Scientific and Engineering Research (IJSER), Volume 7, Issue 12, Dec 2016, Pages : 466 – 472	2016	2229-5518	
15	Analysis of Advanced data mining Prototypes in Spatial data analysis	Journal of Engineering and Applied sciences	2017	1816- 949X	
16	Techniques for Machine learning based Spatial data	International Journal of Computer applications	2017	0975 - 8887	

	Analysis-Research Directions			
17	New Machine learning based approach for predictive Modeling on spatial data	978-1-5090-6366- 6/17/\$31.00 ©2017 IEEE	2017	
18	Load Balancing non- Preempitive jobs in Grid environment	International Journal of Advance research in computer science	2017	0976-5697
19	An NDVI based Spatial Pattern Analysis for Spatial Image Classification	International Journal of Applied Engineering Research, Volume 13, pp. 11553-11558	2018	0973- 4562
20	A Review on spatial data classification on land usage and land cover using feature extraction and classification methods	Journal of Emerging Technologies and Innovative research, February, volume 6, issue 2. PP – 706-709	2019	2349- 5162
21	Predictive Data Analysis to identify Heart Anomalies	International Journal of Recent Technology and Engineering (IJRTE), Volume 8 Issue - 2, July Pg.Nos: 2607 - 2611.	2019	2277 - 3878
22	Design And Implementation of Multi Label Land Cover Change Prediction Model by Modified Ann-Cnn And Ca-Markov method	International Journal of Advanced Research in Engineering and Technology (IJARET), Volume 12, Issue 2, February 2021	2021	Print: 0976-6480 Online: 0976-6499
		NATIONAL		
1	Trees that decide on criminals-Spatial Data Mining for Crime Analysis	Journal of Geospatial Today, July 2006 Vol4	2006	0972-6810

2	Implementaion of	Technology Spectrum, a	2007	0974-6854	
	Decision Tree	multi-disciplinary Journal of			
	Algorithm for Spatial	JNTUH, Vol.1.No.2 July			
	Data Mining	2007			

5.8. Papers presented at National / International Conferences:

Sno	Title	Conference	National / International	Year
1	Spatial and Collateral Data Mining for Crime detection and analysis	Map Middle East 2005 – Conference on Geospatial information and Knowledge economy, April 2005, Dubai, UAE	International	2005
2	Polyanalyst application for Forest Data Mining	IGARSS- IEEE – 25 th International Geoscience and Remote Sensing Symposium, July 2006, Seoul, South Korea.	International	2005
3	Data Mining of Geospatial database for Agriculture related application	MAP INDIA – 06, 9 th International conference on Land registration & CADASTRE, January 2006, New Delhi, India	International	2006
4	Association rule mining – application to Crime analysis	ICORG'06, International Conference on Geo-Informatics, June 2006, Hyderabad, India	International	2006
5	Spatial Outliers analysis for optimal planning of Agriculture land use	ICSCI – 08, International conference on Cybernetics, Systematics and Informatics, 02-05 January 2008, Hyderabad, India.	International	2008
6	The Feasibility Study for Land Suitability Using GIS Tools	International Conference on Environment, Cultural, Economic & Social sustainability, University of Technology, Mauritius, January, 2009	International	2009
7	On-Board Wireless Data Acquisition System & Telemetry	International Telemetering Conference (ITC 2013), Bally's, Las	International	2013

		Vegas, Nevada, USA, October 21 - 24, 2013		
8	A unified Model For Assessment to promote Excellence In Higher Education	International Conference on Stategies and Action Plans for Sustainable Development in Higher Education, August 2014	International	2014
9	Spatial and Temporal Data Mining for Precision Agriculture: Insights into Present Agriculture Research	International Conference on Innovations in Computer Science & Information Technology - ICICSIT 2015, MGIT, HYD, 28 th & 29 th August' 15	International	2015
10	New Machine learning based approach for Predictive Modeling of Spatial data	International Conference on Advances in Computing, Communications and Informatics (ICACCI)	International	2017
11	A Novel Approach for approximation based spatial data Classification	International Conference on Innovations in Electrical, Electronics, Power, Smart grids & Advanced Computing Technologies - (IEEPS-18), VNR VJIET, 9 th & 10 th March 2018	International	2018
12	Emotion and Stress Recognition through Speech Using Machine Learning Models	International e-Conference on Advances in Computer Engineering and Communication Systems – ICACECS20, 13 – 14 th August 2020 at VNR VJIET	International	2020
13	Diabetic Symptoms Prediction through Retinopathy	International e-Conference on Advances in Computer Engineering and Communication Systems – ICACECS20, 13 – 14 th August 2020 at VNR VJIET	International	2020

14	Decision tree algorithm	National Conference on emerging	National	2006
	application for Data	areas of computer Science and		
	Mining	engineering, November 2006,		
		Hyderabad, India		

BOOK CHAPTERS:

SNo	Article title	Book	
1	Emotion and Stress Recognition through Speech	Learning and Analytics in	
	Using Machine Learning Models (Pg.No 213 – 218)	Intelligent Systems – Springer	
		(January 2021)	
2	Diabetic Symptoms Prediction through	Machine Learning	
	Retinopathy (Pg.No: 13 – 20)	Technologies and	
		applications – Springer	
		(March 2021)	

6. Awards / Honors received:

- Awarded as "Best teacher in Computer Science and Engineering" by ISTE South region for the year 2010, on 29th January 2012.
- Chaired the Technical Session in International Conference on Innovations in Electrical, Electronics, Power, Smart grids & Advanced Computing Technologies (IEEPS-18), conducted at VNR VJIET from 9th to 10th March. 2018
- Completed two courses in NPTEL
 - a) Database Management Systems
 - b) Blockchain Technologies
- Completed a Course on **Introduction to Python** in DATACAMP
- Completed a Course on AI for ALL in COURSERA
- Completed a Course on **Data Science Tool Kit** in COURSERA
- Completed a Course on **Data Science for Everyone** in DATACAMP.
- Completed a Course on SQL for Data Science in DATACAMP
- Received a grant of 5 Lakhs, towards conducting the International Conference on "Advances in Computer Engineering and Communication Systems" Conducted the Conference ONLINE from 13th – 14th August 2020.

7. Motto: Work is Worship