Name: **Dr. K. VENKATA RAMANA**

Designation: Assistant Professor / Technical Trainer

Department: Computer Science & Engineering / T&P

Mail ID: venkataramana_k@vnrvjiet.in

Experience (in years): Teaching: 21 **Research:** 9 **Others:** Nil

AICTE ID: 1-3543172023

Date of Birth: 23-06-1978

1. Educational / Technical qualifications:

S.No	Level (UG / PG / Ph.D)	Year of passing	Specialization
1	Ph.D (JNTUH)	2021	CSE
2	M.Tech (JNTUH)	2010	CSE

2. Teaching and Learning:

2.1 Teaching Interests: Data Structures and Algorithms, C Programming, Object-Oriented Programming through C++, JAVA, Database Management Systems, Data Mining and Data Warehousing, Operating Systems, Computer Graphics, Design and Analysis of Algorithms.

2.2 Novel Teaching & Learning Techniques adopted: PPTs, Video Lectures, Demonstrations, and Discussions on Recent Paper Publications.

2.3 Involvement in curriculum updating / Design: NA

3. Co-curricular and Extra-Curricular Activities

3.1. Interests and Hobbies:

- Creating coding culture among students
- To motivate students toward research
- Learning new technologies
- To provide good attitude & education to our students
- Browsing internet
- Reading Books

3.2. CCA/ECA Organized: NA

3.3. CCA/ECA participated:

- Participated as a volunteer in the 3rd Research Methodology Course organized by JNTU, Hyderabad from 16 December to 21 December 2013.

- Worked as a reviewer for the 2nd International Conference on Advances in Computer Engineering and Communication Systems scheduled during 13th-14th August 2021 at VNR VJIET, Hyderabad.

- Participated and actively served as a reviewer in 6th International Conference on Intelligent Computing and Communication (ICICC-22) during 18th – 19th November 2022, held at GNITS, Hyderabad, India.
- Delivered video lectures on Youtube on C and Data Structures.
- Chair & Member review Committee for International Conferences.

3.4. Counseling and Mentoring Activity:

- Actively involved in counseling and mentoring the pre-final year students toward placing in a high-package software firm.
- Motivating the students towards paper publication, presenting papers at conferences, and participating in workshops.

3.5. Committees involved in:

Department level: Training & Placement-Coordinating with corporate delegates and students to ensure a smooth campus recruitment process.

Institute Level: Training & Placement

4. Conference / Workshop / Seminar / Guest Lectures:

4.1 Conducted:

- Program coordinator for "High-Intensity Training Program" for pre-final year students organized by MTP cell, VNR Vignana Jyothi Institute of Engineering and Technology. (08.06.2019 – 18.06.2019)
- A workshop was organized on "Career Opportunities in ESG" in association with the HYSEA ESG forum (Speaker: Mr. Sharfoddin Mohammed, Associate Director-Corporate Workplace Services, EHS India Lead, Cognizant).

4.2 Attended:

- One day workshop on "Principles of Effective Teaching and Learning"; on 10 August 2008 at Bhoj Reddy Engineering College for Women, Hyderabad.

- A two-day workshop on "National Conference on Mathematical Modelling in Engineering and Technology"; 13-02-2010 to 14-02-2010; at Stanley College of Engineering & Technology for Women, Hyderabad.

- A Two-day workshop on "Mobile and Distributed Computing Applications"; 06-12-2012 to 07-12-2012; at G. Narayanamma Institute of Technology & Science, Hyderabad.

- A one-week workshop on "Research Methodology Course"; 16-12-2013 to 21-12-2013; By Research and Development Cell-JNTU, Hyderabad.

- A Two-day workshop on "Security Compliance and Governance in Cloud"; 08-01-2015 to 09-01-2015; organized by Department of CSE, G. Narayanamma Institute of Technology & Science, Hyderabad.

- A Two-Day workshop on "Data Mining using WEKA Tool"; 23-01-2015 to 24-01-2015; by Department of IT & CSE, MVSR Engineering College, Hyderabad.

- One day workshop on "Fundamentals of Hadoop", on 12-09-2015, By Department of CSE, Bhoj Reddy Engineering College for women, Hyderabad.

- A Two-Day National Conference on "Mathematical Modelling in Engineering and Technology"; From 13-02-2010 to 14-02-2010; by Stanly College of Engineering & Technology for Women.

- A Two-Day National Conference on "Information and Communication Technologies Research – Challenges and Opportunities"; From 19-08-2016 to 20-08-2016; by Aurora's Research & Development Cell.

- Participated in a one-week Faculty Development Program on "Web Services and Internet of Things" organized by the Dept of CSE, GNITS from 1st December to 5th December 2015.

- Participated in MeitY, Govt. of India, sponsored one-week Faculty Development Program on "Data Analytics with R" organized by the E & ICT Academy, National Institute of Technology, Warangal at VNR Vignana Jyothi Institute of Engineering and Technology, Hyderabad, from 15th May to 20th May 2017.

- Participated in a two-week Faculty Development Program on "Software Engineering Best Practices (Java)" organized by EPAM Systems India Pvt. Ltd. (12 - 23 November 2018).

- Participated in a one-week Faculty Development Program on "Artificial Intelligence" organized by the Department of CSE & IT, BVRIT College of Engineering for Women in association with NYCI & Brainovision Solutions India Pvt. Ltd. (22 – 26 May 2020)

- Participated in a one-week Faculty Development Program on "Introduction to Artificial Intelligence and Machine Learning" organized by Dept of CSE, Geethanjali College of Engineering and Technology in association with CSI Hyderabad. (25 - 30 May 2020).

- Participated in a one-week Faculty Development Program on "Python 3.4.3" organized by Vaagdevi College of Engineering in association with training offered by the spoken tutorial project, IIT Bombay funded by the National Mission on Education through ICT, MHRD, Govt. of India. (1 – 6 June 2020)

- Participated in a one-week Faculty Development Program on "Big Data Tools" organized by St. Martin's Engineering College in association with the computer society of India, Hyderabad. (18 - 23 May 2020)

- Participated in a two-week Faculty Development Program on "AI, ML and DP applications to Smart Grid", organized by the Dept of EEE, VNR Vignana Jyothi Institute of Engineering and Technology in association with DST. (25th November - 6th December)

- Participated in a one-week Faculty Development Program on "Python for Machine Learning", organized by the Department of Computer Science and Engineering, VNR Vignana Jyothi Institute of Engineering and Technology in collaboration with the Computer Society of India (CSI). (18th May 2020 - 23rd May 2020).

- Participated in a one-week Faculty Development Program on "Recent trends in Cognitive Science and its Applications" organized by the Department of Computer Science and Engineering, VNR Vignana Jyothi Institute of Engineering and Technology in collaboration with Vikram University, Oriental University, and SOC, IPS academy Indore. (13th March 2023 – 18th March 2023).

- Participated in a 30 days masterclass on web development using React JS at Pantech e-Learning Pvt Ltd, Chennai from 4.1.2023 to 3.2.2023.

- Participated in a 30 days masterclass on Machine Learning at Pantech e-Learning Pvt Ltd, Chennai from 11.1.2023 to 10.2.2023.

- Participated in a one-week National Level Online Faculty Development Program on "Mathematics for Data Science and Machine Learning" organized by the Department of Computer Science and Engineering, Gopalan College of Engineering and Management, Bangalore from 2nd January to 7th January 2023.

- Participated in a one-week National Level Faculty Development Program on "Cyber Security, Digital Forensics and Penetration Testing" organized by the Department of Computer Science and Engineering, Spoorthy Engineering College, Hyderabad from 26th December to 31st December 2022.

5. **Academic Contribution and Research & Consultancy**:

5.1. Invited Lectures:
- Delivered a guest lecture on "C and Data Structures" at Vignana Bharathi Institute of Technology (9 - 10 Jan 2015)
- Delivered a guest lecture on "C and Data Structures", at VNR Vignana Jyothi Institute of Engineering and Technology (21 - 23 August 2017)
- Delivered a guest lecture on "C and Data Structures" at KITS, Warangal. (23 – 24 March. 2019)
- Delivered a guest lecture on "Technical MCQs on C" at OU, Hyderabad. (14th July 2019).
- Delivered a technical talk on "Logic Building Skills in Programming – Bit Operators" at Maturi Venkata Subba Rao (MVSR) Engineering College, Hyderabad. (7th January 2022).
- Delivered a guest lecture on "Bit Manipulations in Competitive Coding" at Bhoj Reddy Engineering College for Women, Hyderabad. (29th April 2022).
- Delivered a webinar on "Techniques in C Programming" at VNR VJIET, Hyderabad on 19.7.2020.

- Delivered a guest lecture on "Graphs" held on 8th June 2022 as a part of the faculty orientation program on "Teaching Learning Process on Data Structures Through C" scheduled from 30.5.2022 to 8.6.2022 organized by the department of CSE, VNR VJIET, in collaboration with CSI.
- Guest faculty at WIPRO BITS Collaborative MS IT Programme.

5.2. Articles / Chapters published in Books:

5.3. Books published as a single author or as editor: NA

5.4. Projects Guided:

        a) UG: 6   b) PG: 30

5.5. Research Interests: Data Mining, Machine Learning

5.6. Ph.D. students:

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

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
1	Investigation of Source Code Mining using Novel Code Mining Parameter Matrix: Recent State of Art	International Journal of Latest Trends in Engineering and Technology Vol No: 7 PP.87-97	2278-621X	0.685	International
2	A Novel Automatic Source Code Defects Detection Framework and Evaluation on Popular Java Open-Source APIs	International Journal of Advanced Research in Computer Science, Vol. 8, No.5, PP.1741-1746	0976-5697	1.225	International
3	An Evaluation of Popular Code Mining Frameworks Through Severity-Based Defect Rule	International Journal of Emerging Technology and Advanced Engineering Vol.7, No.6, PP.375-380	2250-2459	0.35	International

4	A Severity-Based Source Code Defect Fining Framework and Improvements over Methods	International Journal of Applied Engineering Research, Vol.12, No.24, PP.15202-15214	0973-4562	0.15	International
5	An Efficient Liver Disease Prediction Using Mask-Regional Convolutional Neural Network and Pelican Optimization Algorithm	IETE Journal of Research Taylor & Francis Online Published online: 02 Mar 2023.	0377-2063	1.877	International
6	An Approach for Mining Top-k High Utility Item Sets (HUI)	International Journal on Recent and Innovation Trends in Computing and Communication, Volume 11, Issue: 2s, pp. 198–203, January 2023.	2321-8169	1.376	International

5.8. Papers presented at National / International Conferences:

S. No	Title of the Paper	Name of the Conference / Seminar	National / International	Period
1.	Semantic-Based Feature Extraction and Feature Selection in Digital Library User Behaviour Dataset	5th International Conference on Computer Networks and Inventive Communication Technologies (ICCNCT-2022)	International	2 days
2.	DWT Algorithm for Macro & Micro Block-	International	International	3 days

	based Multiple Histogram Shifting for Video Data Hiding	Conference on Automation, Computing and Renewable Systems (ICACRS)		
3.	Hybrid Variable Selection Approach to Analyse High-Dimensional Dataset	7th International Conference on Computing Methodologies and Communication, ICCMC 2023	International	2 days
4.	Design and Implementation of Renewable Energy Applications Based Bi-Directional Buck-Boost Converter	Proceedings of 2023 3rd International Conference on Innovative Practices in Technology and Management, ICIPTM 2023	International	3 days
5.	Semantic-Based Feature Extraction and Feature Selection in Digital Library User Behaviour Dataset	5th International Conference on Computer Networks and Inventive Communication Technologies (ICCNCT-2022) Part of the book series: Lecture Notes on Data Engineering and Communications Technologies (LNDECT, volume 141)	International	2 days
6.	A Novel Code Mining Framework for Detection of Defects in Source Code	International Conference on Research Advancements in Computer Science	International	2 days

		and Communication		
7.	Comparative Study of Clone Detection Methodology to Improve Software Quality Maintenance	National Conference on "Information and Communication Technologies Research – Challenges and Opportunities"	National	2 days
8.	An Approach to Anti-Phishing	National Conference on Mathematical Modelling in Engineering and Technology	National	2 days
9.	Analysis of Security Attacks for AODV Protocol in MANET	National Conference on Mathematical Modelling in Engineering and Technology	National	2 days

5.9. Sponsored Research Projects: NA

S.No	Title	Agency	Period	Grant amount	Ongoing / Completed

5.10 Consultancy Projects: Nil

S.No	Title	Agency	Period	Grant amount	Ongoing / Completed

5.11 Patents published.

- Patent publication on ICDN- Object Detection System: Intelligent Object Detection System with Image Classification and Deep Neural Networks, Application Number: 202041047669, Publication Date: 13.11.2020.
- Patent publication on Prediction of Diseases in Vegetables using Machine Learning Algorithm, Application Number: 202241000738, Publication Date: 21/01/2022.

- Patent publication on Machine Learning Approach Built on Block-Sparse Coding for Accurate Device-Free Localization in IOT Environment, Application Number: 202311006047, Publication Date: 10/02/2023.
- Patent publication on Network Filtering using Machine Learning and Artificial Intelligence interfaces, Application Number: 202341008527, Publication Date: 24/02/2023.

6. Awards / Honors received: NA

7. Motto: To dedicate my services in the field of teaching by motivating students to excel in their Research & Academics.