

CURRICULUM VITAE

M.VENKATA RAO,
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CAREER OBJECTIVE:

To work in a competitive and challenging world to foster and perform with fertile work atmosphere and opportunities to grow.

Educational Qualifications:

- **M.Tech.** (Computer Science and Engineering) from JNTU College of Engineering, Kukatpally, Hyderabad with 80.3% (2002)
- **B.Tech.** (Electronics and Communications) from Koneru Lakshmaiah College of Engineering Affiliated to Nagarjuna University with 61% (1991-95).

Experience: Industrial: 03 Teaching:23

- Currently working as Associate Vice-President (Learning & leadership) for Sunsoft Solutions Inc, Gachibowli, Hyderabad.
- Worked in St Martin's Engineering College from July,2019 to January,2021.
- Worked in Chirala Engineering College from Oct,2015-June,2019
- Worked in Vignan's Lara & University, Vadlamudi from 2008 to 2015.
- Worked in Gudlavalleru Engineering College from 2000 to 2007.
- Worked in AANM & VVRSR Polytechnic, Gudlavalleru from 1995-2000.

Projects Handled:

Offender Tracking: Involved in the design and development of a Smart watch based tacking device with Thundercomm, Taiwan. Involved in both hardware development and software development. This device and application is for US jails (Both pre-payroll and post-payroll). The worth of the project is fifty million dollars.

Surveillance Drones: Designed and developed a swarm drone for jail surveillance of large jails to counterattack suspicious drops of items in the jail.

Subjects taught at UG & PG Level:

- Cloud Computing, Software Engineering, Software Project Management, Design and Analysis of Algorithms, Computer Architecture and Organisation, Advanced Computer Architecture, Cryptography and Network Security, Computer Networks.

Administrative Skills:

- **Managing all the vendors, Co-ordinating with the top leadership, monitoring the project and product milestones.**
- Dean, IQAC at Vignan's University
- Active participation in preparing NAAC/UGC/NBA/AICTE/JNTU reports
- Member admissions strategy committee.
- HoD and In-Charge Principal,
- Controller of Examinations

Professional Memberships:

1. Life Member in Institute of Electronics and Telecommunication Engineers (**IETE**)(**M149771**).
2. Life Member in Institute of Engineers India (**IEI**) (**M – 132845 / 4**).
3. Life Member in Computer society of India (**CSI**) (**I0168521**)
4. Member in ACM (**0772616**) since 2004.
5. Member in International Association of Engineers (**IAENG**)(**M61502**)

Editorial Board Member in:

1. Advances In Industrial Engineering and Management. (https://aiem.com.my/?page_id=169)
2. Computational Research progress in Applied Science and Engineering. (http://www.crpase.com/editorial_board.php)
3. International Journal of New Innovations in Engineering and Technology (<http://www.ijniet.org/editorial-board-2/>)
4. Journal of Environmental Science, Computer Science and Engineering & Technology. (https://jecet.org/static_page.php?heading=Editorial%20Board)

Research Profile Links:

ORCID ID	https://orcid.org/0000-0003-2478-4690?lang=en
Scopus ID	https://www.scopus.com/authid/detail.uri?authorId=56439813500
Google scholar profile link	https://scholar.google.com/citations?hl=en&user=-ORCJaUAAAJ
SSRN Profile link	https://hq.ssrn.com/submissions/MyPapers.cfm?partid=4346105
Research gate profile link	https://www.researchgate.net/profile/Machavara_pu_Venkata_Rao
Web of Science Researcher ID(publons)	https://publons.com/researcher/3858920/machavara-pu-venkata-rao/

Academia.edu profile link	https://independent.academia.edu/venkatarao-chavarapu
Mendeley profile	https://www.mendeley.com/profiles/venkatarao-machavarapu/

Australian Innovation Patents:

1. *Title of invention: PIG- Intelligent Chatbot System: Process (Sales Transaction) to use Information Gathered by an Intelligent Chatbot System.*
Patent number: 2020104035, Granted date:12th December,2020.
2. *Title of invention: IUML- Stock Prices Predictor: Intelligent Stock Prices Predictor Using Machine Learning.*
Patent number: 2020103525, Granted date:19th November,2020.
3. *Title of invention: LNUM- Human Immune Detection System: Human Immune Level Detection and Notification System Using Mobile Phone.*
Patent number: 2020103586, Granted date:19th November,2020.

Indian Patents Published:

1. *Method for Management of Scholarship of Large Number of Students Based on Blockchain*, Application Number: 201911034937, Published in Issue number: 36/2019 on 06/09/2019.
2. *Intelligent Hotel Booking Using Machine Learning*, Application Number: 201941035448, Published in Issue Number: 38/2019 on 20/09/2019.
3. *Quantum Cryptography Based Method For Security And Privacy In Mobile Cloud Computing*, Application Number: 201941041198, Published in Issue Number: 42/2019 on 18/10/2019.
4. *Machine Learning Based Computer Implemented Method For Prediction Of Artificial Oil Lift Failure*, Application Number: 201941040094, Published in Issue Number:42/2019 on 18/10/2019.
5. *Aadhaar Based Online Intelligent Voting System*, Application Number: 201941050605, Published in Issue Number: 50/2019 on 13/12/2019.
6. *Intelligent Methods For Detecting Coronavirus Using Rna And Share The Location Using IoT*, Application Number: 202041015018, Published in Issue Number: 21/2020 on 22/05/2020
7. *IoT-Based System For Agriculture Environment Control*, Application Number: 202041015018, Published in Issue Number: 21/2020 on 22/05/2020
8. *Intelligent Thermal Scanning Kit For Testing The Covid-19 Positivity, Negative And Displaying Real Time Count Of Positive Case Using Iot, Machine Learning*, Application Number: 202041015755, Published in Issue Number: 23/2020 on 05/06/2020.

Books Authored:

1. Ambati Hari Prasad Reddy, M Venkata Rao, M Hema Sree, **Artificial Intelligence**, ISBN:978-81-19147-84-7, Nitya Publications
2. Keyur Prakash Dev, Ambati Hari Prasad Reddy, M Venkata Rao, **Machine Learning Algorithms**, ISBN:978-93-5625-693-4, SIPH

3. Keyur Prakash Dev, Ambati Hari Prasad Reddy, M Venkata Rao, **Cyber Security**, ISBN:978-93-5625-672-9, SIPH
4. Ambati Hari Prasad Reddy, M Venkata Rao, Keyur Prakash Dev, **Internet of Things**, ISBN:978-93-5641-085-5, Nitya Publications

Journal publications:

1. Meka Anuradha, Akella Amarendra Babu , *M.Venkata Rao*, Dr.P.Santosh Kumar Patra “Data Network Traffic Management Automation System”, International Journal of Advanced Science and Technology Vol. 29, No. 9s, (2020), pp. 2726-2732
2. Akella Amarendra Babu , *M.Venkata Rao*, Meka Anuradha, ,Dr.P.Santosh Kumar Patra “Measurement of Phonemic Distances and its Applications” International Journal of Advanced Science and Technology Vol. 29, No. 9s, (2020), pp. 2669-2674
3. S V Achuta Rao, *M Venkata Rao*, “Enhanced Security through Multi-Tier User Authentication in Wireless Sensor Networks”, International Journal of Recent Technology and Engineering, Volume 8, Issue 4 November 2019.
4. M.Venkata Rao et.al “An Enhanced Adaptive Access Control Mechanism for Securing the Virtual Machine Images in Cloud Computing” International Conference on Innovative Research in Engineering, Computers and Sciences during January 19-21, 2018 ,Goa INDIA.
5. M.Venkata Rao et.al “**K-Anonymization of Social Network Data by Consecutive Clustering**” International Conference on Innovative Research in Engineering, Computers and Sciences during January 19-21, 2018 ,Goa INDIA.
6. M.Venkata Rao, et.all “An improved threshold multistage secret sharing scheme with cheater identification” 23-25 March, 2017 International Conference on Big Data Analytics and Computational Intelligence (ICBDAC). (SCOPUS indexed).
7. M.Venkata Rao, et.all “Defended protocol for artless wireless Ad Hoc networks formation” 23-25 March, 2017 International Conference on Big Data Analytics and Computational Intelligence (ICBDAC). (SCOPUS indexed)
8. M.Venkata Rao, Sahithi T, ” Managing MySql Cluster Data Using Impala Cloudera”, Procedia of Computer Science, ELSIEVER, Volume 85C, 2016, Pg.463-474. (SCOPUS indexed)
9. N.Sai Bala Kishore, **M Rao. Venkata.**, M Nagamani, ” Environmental Noise Analysis for Robust Automatic Speech Recognition”, *Advanced Computer and Communication Engineering* ,Springer Lecture Notes in Electrical Engineering 315:801-811, DOI:10.1009/978-3-319-07674.4_75.((SCOPUS Indexed)
10. N.Gnaneswara Rao, V.RamaKrishna Sajja, S.Deva Kumar, M.Venkata Rao, ”An Improved IHBM using Smooth Projections” IJCTA, Pages:326-335, ISSN:0974-5572 (SCOPUS Indexed)
11. P K Venkateswar Lal , Dr. Ande Prasad , **M Venkat Rao** , 2015 “Adaptive Fuzzy Membership Functions with AGA Techniques in Telugu Character Recognition”, *Asian Journal of Information Technology* , 14:11-22. DOI:10.3923/ajit.2015.11.22 (SCOPUS Indexed)
12. P. Seshu Babu , T.V.Subramanyam, I.Leela Priya, **M Venkat Rao**, 2015” An Active Addressing Protocol for Auto Configuration of Node in MANETs”, *Asian Journal*

- of Information Technology*, 14:23-27. DOI:10.3923/ajit.2015.23.27 (SCOPUS Indexed)
13. Lavu Jayasudha, Sriraman Kothuri, M. Venkata Rao,” OO Metric Studies of Behavioral Diagrams”,4th International Conference, ObCom 2011, Vellore, TN, India, December 9-11, 2011. Proceedings, Part II, Pg.588-595. (SCOPUS Indexed)
 14. Reddy Veera Babu, **M.Venkata Rao**,”Virtual market using logistics Optimization”, International. Journal Advanced Networking and Applications.
 15. **M.Venkata Rao**, B.V.Suresh Kumar,,” Adaptive Fault Tolerant Routing In Interconnection Networks: A Review” International. Journal Advanced Networking and Applications

Papers Presentations / Publications in Various Conferences:

1. **M.Venkata Rao**, P K Venketeswara Lal, Ande Prasad, “A Survey of Telugu Script Recognition Schemes” International Conference on Emerging Trends in Engineering, Business and Disaster Management [ICBDM 2015] on 27th & 28th February 2015, at Noorul Islam University.(SCOPUS Indexed)
2. **M.Venkata Rao**, D.Yacob, R.Pratap Kumar,”A New Adaptive Access Control Mechanism for Securing the Virtual Machine images in cloud Computing Environment”, International conference on Advanced Information Communication Technology in Engineering (ICAICTE-2K13), TTITS, Bhiwani
3. **M.Venkata Rao** , Sriraman Kothuri , Lavu Jayasudha ,”**OO Metric Studies of UML Behavioral Diagrams**”.4th International Conference, ObCom 2011, Vellore, TN, India, December 9-11, 2011. Proceedings, Part II(published by Springer) (SCOPUS Indexed)
4. Kodali Haritha and **M.Venkata Rao**, “*Utility of Distributed Cryptography in P2P and MANETs: The Case of Membership Control*”, Proceedings of national seminar on Intrusion Detection Using Data mining, Sponsored by AICTE, Feb, 2010
5. A.S.K.Ratnam and **M.Venkata Rao**, “*An Array based Technique for routing messages in distributed double loop networks*”, international Conference on Mathematics and computer science, Chennai, 2010.
6. **M.Venkata Rao** and Dr. V.M.Rao, “*Advanced Learning paradigms: From E-learning to M-learning to U-learning*” ISTE-AP Section, 2009.
7. A.S.K.Ratnam and **M.Venkata Rao**, “*Power Control Schemes for Wireless and Cellular Systems*” international Conference on Sensors and Networks, VIT, Vellore, Dec 2009.
8. **M.Venkata Rao** and Dr.N.Chalamaiah, “*Hypercube and Its Variant Networks: A Topological Evaluation*”, The 8th International conference on High performance computing in Asia Pacific region (HPC ASIA 2005), Nov 30th to 3rd Dec 2005. (SCOPUS Indexed)
9. **M.Venkata Rao** and Dr.N.Chalamaiah, “*Efficient distributed algorithms to construct minimum – cost spanning tree for broadcast and convergecast*”, The

- 6th International conference on Parallel and distributed computing, Applications and technologies (PDCAT'05), Dec 5th to 8th 2005 (ACCEPTED)
10. **M.Venkata Rao** and Dr.N.Chalamaiah, "***Routing and Broadcasting algorithms for a Metacube Interconnecton topology for large scale parallel systems***", Asia-Pacific Conference on "Parallel & Distributed Computing Technologies" by Vellore Institute of Technology, Vellore, 13th – 15th December, 2004.
 11. **M.Venkata Rao** and Dr.N.Chalamaiah "***Topological properties of Hypercube and its variant interconnection networks***" National conference on "Networks and distributed systems" (Networks2005) by Osmania University, and Computer Society of India, Hyderabad, 25th – 26th February, 2005.
 12. **M.Venkata Rao** and K.Ajay Babu "***GLOBAL MEMORY SERVICE WITH MEMORY SERVERS IN A WORKSTATION CLUSTER***" in National conference, on High Performance Computing (VISION'05) at Government College of Engineering, Tirunelveli on 8th April, 2005
 13. **M.Venkata Rao** and Dr.T.Purnachandra Rao "***Role of information technology in quality education***" National conference on "Digital convergence for quality education" by Computer Society of India, Hyderabad, 19-20 December, 2003.
 14. M.Ranga Rao, B.Nancharaiah, **M.Venkata Rao** and N.Adinarayana "***QOS Guarantees for Multimedia services on a TDMA – Based Global star system***" Asia-Pacific Conference on "Parallel & Distributed Computing Technologies" by Vellore Institute of Technology, Vellore, 13th – 15th December, 2004.
 15. M.Ranga Rao, B.Nancharaiah, **M.Venkata Rao** and N.Adinarayana "***Quality of service for Broad band applications on a TDMA- based Teledesic systems***" in the proceedings of the National Conference on Issues and Trends in Wireless Networks held at Thapar Institute of Engg. And Technology -Patiala, 17-18 December-2004.
 16. **M.Venkata Rao** and K.Ajay Babu "***DYNAMIC QOS ROUTING ALGORITHM FOR COMMUNICATION QUALITY***", National conference on High Performance Computing (VISION'05) at Government College of Engineering, Tirunelveli on 8th April, 2005.

Workshop/Summer School Programmes attended:

1. Attended a Staff development Program on, ***Selected topics in Software Engineering***, Ministry of Human Resources Development, New Delhi from 18 – 24th Mar, 2010 at **IIT, Kharagpur**.
2. Attended a workshop on, ***Introduction to Graph and Geometric algorithms***"organized by **IISc-TIFR**, 15–18th July, 2009, Bangalore.
3. Attended a Short term course entitled, ***Software Project Management***' sponsored by the Quality Improvement Programme, Ministry of Human Resources Development, New Delhi from 1st July – 7th July, 2005 at **IIT, Kanpur**.
4. Attended a Short term training program on "***Avanced Algorithms***" at **IIT, Guwahati**, 19-23, July, 2004.

5. Attended a Training program on “Advances in Routing Protocols” at **Engineering Staff College of India**, Hyderabad, from 27-28, Feb, 2004.
6. Attended a workshop on “*Industry Oriented Software Engineering*” at **Jawaharlal Nehru Centre for Advanced Scientific Research**, Bangalore, from 20th – 22nd January, 2003.
7. Attended a seminar on “*DIGITAL IMAGE PROCESSING & APPLICATIONS*” at M.S.Ramaiah School of advanced studies, Bangalore from 24-11-2003 to 29-11-2003.
8. Attended a Training program on “*Data warehousing and Data mining Technologies*” at Engineering Staff College of India, Hyderabad, from 20-21 November, 2003.
9. Attended a Quality improvement program on “*Instructional Design and Delivery*” at Technical Teachers Training Institute, Chennai, from 21-04-2003 to 26-04-2003.
10. Attended a Short term training program on “*Internetworking*” Sponsored by AICTE-ISTE and organized by **JNTU college of Engineering**, Hyderabad, 21st January -02nd February, 2002.
11. Attended a Training program on “*Linux in a Teaspoon*” at Engineering Staff College, Hyderabad, from 17-18th January, 2002.
12. Attended a Training program on “*On-Line Examination System*” organized by J.N.T.U and CGG at M.V.G.R, Vizayanagaram, 16-22, Jan, 2004.

Workshops / Seminars / Conferences conducted:

1. Convenor for ICECNS-2018, 19-21, October, Goa INDIA
2. Convenor for IRCES-2018, January 19-21, 2018, Goa INDIA.
3. Co-ordinator for one week FDP on “Hadoop and Big Data Analytics” held at Chirala Engineering College by E&ICT academy, NIT Warangal.-2016.
4. Co-ordinator for three day workshop on “*Unified Modeling Language*”, in 2003.
5. Convener for three weeks programme on *.NET Technologies* in 2005.
6. Co-ordinator for three day short term course on “**dB TOOLS**” in 2004.
7. Convener for three day workshop on “*Software Project Management*” in 2006.
8. Co-convenor for student conference “*NALEDGE’06*” in 2006.
9. Co-ordinator for a four day workshop on “*Hands on project testing*” in 2007.

PERSONAL PROFILE:

Date of Birth : 10th March 1972

Permanent Address : M.VENKATA RAO,
Opp.J.M.J college,Tenali
GUNTUR(DT)-522259,A.P-India.

Marital Status : Married

Nationality : Indian

Sex : Male

Languages Known : English, Hindi & Telugu

Date :

Place : *(Machavarapu Venkata Rao)*