

Curriculum Vitae

Dr. M. Rudra Kumar,

Professor and Head,
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Educational Qualifications:

- **Ph.D.**, in Computer Science and Engineering from Jawaharlal Nehru Technological University, Ananthapur, Ananthapuramu, Andhra Pradesh, India, Nov. **2016**.
- **M.Tech.**, in Computer Science and Engineering from Jawaharlal Nehru Technological University, Ananthapur, Ananthapuramu, Andhra Pradesh, India, **2003**.
- **B.Tech.**, in Computer Science and Engineering from Sri Venkateswara University, Tirupati, Andhra Pradesh, India, **1999**.

Teaching Experience: 17 years

- **Professor and Head**, Department of Computer Science and Engineering, Annamacharya Institute of Technology and Sciences (Autonomous) Rajampet, from **December 2016 and continuing**.
- **Associate professor** of Computer Science and Engineering, from September **2008 to November 2016**, Annamacharya Institute of Technology and Sciences, Rajampet.
- **Assistant Professor of** Computer Science and Engineering, from **4th August 2003 to August 2008**, Annamacharya Institute of Technology and Sciences, Rajampet.

Research Field

- Software Engineering and Machine Learning

Ph.D., thesis title: Maintenance of Software Artifacts using Machine Learning Approaches.

Guide's Name, Institute and Organization or University where Ph. D., completed

Dr. A. Ananda Rao, Vice Chancellor, Rayalaseema University, Kurnool, **Andhra Pradesh, India.**

Jawaharlal Nehru Technological University Ananthapur, Ananthapuramu- 515002, Andhra Pradesh, India.

A FEW RESEARCH PUBLICATIONS & ACADEMIC CONTRIBUTIONS

Madapuri Rudra Kumar, Vinit Kumar Gunjan, Mohd Dilshad Ansari, "Machine Learning-Based HR Appraisal System (ML-APS)," *International Journal of Applied Management Science - INDERSCIENCE Publishers-* in Forthcoming articles.

Madapuri Rudra Kumar et al., "Personal finance transaction index scoring using machine learning model," *Materials Today: Proceedings (ELSEVIER)* January 2021.

Gunjan, Vinit Kumar, and Madapuri Rudra Kumar. "Predictive Analytics for OSA Detection Using Non-Conventional Metrics." *International Journal of Knowledge-Based Organizations (IJKBO)* 10.4 (2020): 13-23.

M Rudra Kumar, et al., "Home Computerization Monitoring System with Google Supporter," *International Journal of Emerging Trends in Engineering Research (IJETER)* Volume 8, Issue 6, PP. 2240-2244, June 2020. (ISSN NO: 2347-3983)

M. Rudra Kumar, et al., "Face Recognition Based Automated Student Attendance System using Deep Learning," *International Journal of Advanced Trends in Computer Science and Engineering*, Volume 9, Issue 3, June 2020. (ISSN NO 2278-3091)

M Rudra Kumar, et al., "Design of High Security Smart Health Care Monitoring System using IoT," *International Journal of Emerging Trends in Engineering Research*, Volume 8, Issue 6, PP. 2259-2265, June 2020. (ISSN NO: 2347-3983)

M. Rudra Kumar, et al., "Efficient Information Dissemination in Vehicular Networks with Topological Approach," *International Journal of Advanced Trends in Computer Science and Engineering*, Volume 9, Issue 3, June 2020. (ISSN NO 2278-3091)

M. Rudra Kumar, V. Kumar Gunjan, "Review of Machine Learning models for Credit Scoring Analysis," *Revista Ingeniería Solidaria*, vol. 16, no. 1, 2020

M. Rudra Kumar, "HBS-CRA: Scaling Impact of Change Request towards Fault Proneness: Defining a Heuristic and Biases Scale (HBS) of Change Request Artifacts (CRA)," *Cluster Computing*, Volume 20, Issue 04, DECEMBER 2017, PP.8. (ISSN 1386-7857)

M. Rudra Kumar, et al., "A Significant Big Data Interpretation Using Map Reduce Algorithm," *International Journal of Scientific Research in Computer Science, Engineering and Information Technology*, Volume 2, Issue 4, PP. 608-614, August 2017.

M. Rudra Kumar, et al., "A Laplacian Probabilistic graph modeling for clustering multi-Valued Data Sets," *Journal of Advanced Research in Dynamical and Control Systems*, Volume 10, Issue 04-Special Issue, JULY 2018, PP.09. (ISSN NO 1943-023X)

M. Rudra Kumar, et al., "Estimating Available Bandwidth Using End- to- End Delay Increase Rate" *International Journal of Innovative Technology and Exploring Engineering*," Volume 8, Issue 11, SEPTEMBER 2019. (ISSN NO:2278-3075)

M. Rudra Kumar, et al., "Optimal Integrity Policy for Secure Storage of Encrypted Data Using Cloud Computing," *International Journal of Innovative Technology and Exploring Engineering*, Volume 8, Issue 11, SEPTEMBER 2019. (ISSN NO:2278-3075)

M. Rudra Kumar, et al., "Energy Efficient Scheduling of Cloud Data Center Servers," International Journal of Innovative Technology and Exploring Engineering, Volume 8, Issue 11, PP. 1769-1772, September 2019. (ISSN NO:2278-3075)

M. Rudra Kumar, et al., "Reciprocal Repository for Decisive Data Access in Disruption Tolerant Networks," International Journal of Innovative Technology and Exploring Engineering, Volume 9, Issue 1, PP.4430-4434, NOVEMBER 2019, (ISSN NO:2278-3075)

M. Rudra Kumar, et al., "Detecting Stress Based on Social Networking Interactions," International Journal of Innovative Technology and Exploring Engineering, Volume 8, Issue 11, SEPTEMBER 2019. (ISSN NO:2278-3075)

M. Rudra Kumar, "Quality Aware Transmissions over IP based Networks: A review," Journal of Applied Science and Computations, Volume VI, Issue V, PP. 3592- 3601, May 2019. (ISSN NO: 1076-5131)

M. Rudra Kumar, et al., "Resourceful Multipath Wireless Sensor Network Routing under Energy Conservation and Security as Context Factors," The International Journal of Analytical and Experimental Modal Analysis, Volume 10, Issue 7, 2018. (ISSN NO: 0886-9367)

M. Rudra Kumar, et al., "Change Requests Artifacts to Assess Impact on Structural Design of SDLC Phases," International Journal of Computer Applications, Volume 54, No. 18, PP. 21-26, September 2012. (ISSN NO: 0975 – 8887)

M. Rudra Kumar, et al., "Assessing the Fault Proneness Degree (DFP) of Change Request Artifacts by Estimating the Impact of Change Request Artifacts Correlation," International Journal of Information Processing, Volume 4, Issue 8(4), PP. 35-44, 2014.

M. Rudra Kumar and Dr. A. Ananda Rao, " Assessing the Fault Proneness Degree (DFP) of Change Request Artifacts: A Statistical Bipartite Graph Strategy," in Eighth International Conference on Data Mining and Warehousing (ICDMW 2014), Bangalore, India, July 2014.

M. Rudra Kumar, et al., "Assessment of Change Request Artifacts Impact towards Fault Proneness," International Journal of Computer Science Issues, Volume 11, Issue 5, No. 1, PP. 179-188, 2014. (ISSN NO: 1694-0784)

Books published as author

Dr. M Rudra Kumar and S fahimuddin and KLNC Prakash, "Computer Vision Techniques in Medical Imaging," in Educreation Publishing, India, 2017. (978-1-5457-0834-7)

Rudra Kumar and KSN Prasad and Annaluri Sreenivasa Rao , "Defect Prediction in Software Development & Maintenance," in Partridge Publishing, India, 2018. (978-1-5437-0242-2)

Dr. M Rudra Kumar and KSN Prasad and Annaluri Sreenivasa Rao, Vinit Kumar Gunjan "Change Request Impacts in Software Maintenance", in CRC Press, Taylor & Francis Group, 2020. (978-0-367-89874-8)

Patents (National and International)

Dr. M. Rudra Kumar et al., Expected Conditional Clustered Regressive Deep Multilayer Precepted Neural Learning for IoT Based Cellular Network Traffic Prediction with Big Data` Australian Patent 2020104133, 17th Feb. 2021.

Dr. M. Rudra Kumar et al., " Early COVID Prediction: Neuro Fuzzy Multi-Layered Data Classifier," Australian Patent 2020102448, Oct. 27, 2020.

Dr. M. Rudra Kumar et al., " Computer Implemented Method and System for Processing Qualitative Imaging to Detect and Forecast Abnormalities," Indian Patent 201941033884 A, Sept. 20, 2019.

Dr. M. Rudra Kumar et al., " A Heuristic and Biases Scale (HBS) Model of Change Request Artifacts(CRA)," Indian Patent 201941038110 A, Oct. 18, 2019.

Dr. M. Rudra Kumar et al., " System and Computer Implemented Methods for Analyzing Features of Digital Medical Images," Indian Patent 201941049665, Dec. 20, 2019.

Dr. M. Rudra Kumar et al., " System and Computer Implemented Methods for Analyzing Features to Generate Sleep Disorder Insights," Indian Patent 201941045922, Nov. 29, 2019.

Additional duties or Positions held

- ② **Head of the Department**, Computer Science and Engineering at AITS, Rajampet, Andhra Pradesh, India from 2016 to Continuing.
- ② **Chairman**, Computer Science and Engineering, Board of Studies of Annamacharya Institute of Technology and Sciences (Autonomous) Rajampet, Andhra Pradesh, India from 2016 to Continuing.
- ② **Member**, Computer Science and Engineering, Academic Council of Annamacharya Institute of Technology and Sciences (Autonomous) Rajampet, Andhra Pradesh, India from 2016 to Continuing.
- ② **In charge Research & Development cell**, AITS, Rajampet, Andhra Pradesh, India from 2008-2016.
- ② **Coordinator** of M Tech projects in CSE Department at AITS, Rajampet, Andhra Pradesh, India, from 2008 to Continuing.

Membership in professional societies

- ② CSI Life Membership