

Name of Faculty Dr Raman Dugyala  
 Designation Professor  
 Nature of Job/Appointment Contract  
 Date of Joining 09/07/2022  
 E-mail ramand\_cse@cbit.ac.in



Education Qualifications	Name of the Degree	Class
Ph. D	Doctor of Philosophy (CSE)	Awarded
PG	M Tech (CS)	First with Distinction
UG	B Tech (CSE)	First with Distinction

Work Experience	
Teaching	20
Research	10
Industry	02
Others	-

Area of Specialization Web Security, Networking, Security Groups, Artificial Intelligence, Machine Learning,

- Professional Memberships
1. Life Member OF **ISTE-44475**
  2. Senior Member OF **IEEE(SMIEEE)- 90799383**
  3. Member of **IAENG- 184206**
  4. Member of **EAI**
  5. Member of **ACM - 9995460**

Responsibilities held at Institution Level -  
 Responsibilities held at Department Level

- Research Guidance
1. **SAMATA KANCHERLA** - Effective Machine learning Model for Intrusion Detection
  2. **N Vikram** – IoT and Manet
  3. **Akhil Khare** - Design and Development of a framework for collision detection in wireless sensor network

- Awards Received
1. Instructor of Service Award **2021**-from CISCO
  2. Research & Innovation Award of the year-2020 from women innovation entrepreneurship foundation, received on 17 **January 2020**.
  3. Smart India Hackathon, **2019** Award from Smart India Hackathon in the year 2019.
  4. Cyber Security Learn-A-Thon Award from Cisco Networking Agency in the year **2018**.
  5. Global IPD Week Sweepstakes award Third Prize winner In International competition which was conducted by CISCO in the year **2017**.

**UG LEVEL:** Object Oriented Programming through Java, Computer Programming, Advanced Data Structures, Data Warehousing and Data Mining, Software Architecture, Data Base Management Systems, Distributed Databases, Computer Graphics, Information Security, Web Technologies, Advanced Unix Programming, Object Oriented Analysis and Design, Software Engineering Principles, Middleware Technologies, Interfacing Through microprocessor, Software Testing Methodologies, Digital Signal and Image processing, Neural Networks and Fuzzy Logic, Computer networks

**PG LEVEL:** Web Security, Advanced Data Base management Systems, Software Quality Assurance and Testing, Object Oriented Modeling, Cloud Computing

No. of Papers Published National Journals – 02 International Journals – 15

National Conference – 01 International Conference – 25

- Projects Carried out
- [Research and Development of Smart, Secure, Scalable, Resilient and Adaptive Cyber – Physical Power System \(S3RA-CPPS\)](#) MI- Project In collaboration with IIT –Delhi funding of **36 Lac** from DST- Govt INDIA
  - [Development of IoT devices for upgrading existing SCADA systems to Smart Grids](#) In collaboration with Mahendra Ecole centrally University –Hyderabad funding of **25 Lac**

National Patents:

1. CBR no : 7683 Application Number : 201821015641  
Title : **I-CHAIR** : INTELLIGENT OFFICE CHAIR
2. CBR no : 7671 Application Number : 201821015630  
Title : **ISPCD SYSTEM** : INTERNAL SMART POLLUTION CONTROL DISPLAY SYSTEM
3. CBR no : 7652 Application Number : 201821015640  
Title : **IPM MACHINE** : INTELLIGENT PARATHA MAKER MACHINE
4. CBR no : 7652 Application Number : 201821015636
5. Title : **ADD PENDRIVE WIFI** :ADD MORE THEN TWO PENDRIVE WITH WIFI
6. CBR no:13335 Application Number : 201941016573  
Title : **IM-MOUSE** :Intelligent Memory Mouse
7. CBR no: 26696 Application no: 201941037583  
Title : **IPVM-System**: Intelligent Parking Vacancy Management and Control System
8. Application no: 202011000853 Title: INCREASE THE CACHE MEMORY PERFORMANCE USING NEURAL NETWORKS, MACHINE LEARNING.
9. Application No: 202041026640 Title: AADHAAR TRANSPORTS SECURITY: A NOVEL APPROACH TO PROVIDERELIABLE AND SECURE SERVICES IN PUBLIC TRANSPORTS THROUGH ADHAAR.
10. Application no: 202041033147 Title: INDOOR AIR QUALITY MONITORING DEVICE USING INTERNET OFTHINGS (IOT).
11. Title: IN AN INTERNET OF THINGS (IOT) SYSTEM, A TECHNIQUE FOR AUTOMATED WIRELESS NETWORK AUTHENTICATION, Application No.202141046745 A, Date of filing of Application :13/10/2021, Publication Date : 29/10/2021
12. Title: SMART BABY MONITORING SYSTEM, Application No.202141046113 A, Date of filing of Application :09/10/2021, Publication Date : 22/10/2021
13. Title: **M-SIM**: Multiple Mobile No In single SIM, Application No. 201921005022, Date of filing of Application : 08/02/2019, Publication Date : 01/03/2019
14. Title: E-Authentication system using Eye Blinking and Deep Learning, Application No. 202241001658, Date of filing of Application:12/01/2022, Publication Date : 28/01/2022
15. INTELLIGENT PRINTER: REMOVE THE PRINTED TEXT (COLOR, BLACK) AND PRINT AGAIN. , Application No. 202141052140, Date of filing of Application: 13/11/2021, Publication Date : 10/12/2021
16. **INTERNATIONAL PATENTS:**  
**US Patent:** CAR DRIVER ALCOHOL LEVEL AND SLEEPING STATUS DETECTION AND NOTIFICATION SYSTEM. (USING MACHINE LEARNING PROGRAMMING AND IOT-BASED TECHNOLOGY)  
Application Number:US17195992  
EIDNO:42127734  
<https://uspto.report/patent/app/20210362594>

Patents

Technology Transfer

CCNA Networking, AWS Cloud Services, IoT, Cyber Operations.

Invited Speaker

1. Resource person for AI & ML FDP at Vemu Institute of Technology - Tirupati.
2. Session Chair and Keynote Speaker for CCPSAT 2022 K G Reddy College of Engineering - Hyderabad
1. Exploring the evolution of software System Analysis and Design Notion Press; 1st edition (1 February 2022) 979-8885913027,2022
2. Essentials of Python LAP Lambert Academic Publishing 978-6203461817. 2021
3. Cloud Computing Paradigm LAP Lambert Academic Publishing .978-6200092885 2019

No. of Books/Chapter Published with details

**Workshops Attended:**

Details of Short-Term Training Programs/Faculty Development Programs/Seminars/Workshops. Other Trainings (**Attended and/or Organized**).

1. Attended a One Week Faculty **Education** during **8<sup>th</sup> march to 12<sup>th</sup> April 2018** at Vardhaman College Of Engineering in collaboration with **IITB-Bombay**.
2. Attended **CCNA R&S (Module III and IV) Instructor training** from **CICSO Academy** during **.21<sup>st</sup> May to 2<sup>nd</sup>**

**June at MVSR Engineering college ,Hyderabad.**

3. Acted as **Session chair in 1<sup>st</sup> International conference on Advanced Machine Learning and Soft Computing (ICMLSC-2018)** at Vardhaman College Of Engineering during **22<sup>nd</sup> and 23<sup>rd</sup> June 2018**
4. Attended **CCNA R&S (Module I and II) Instructor training** from **CICSO Academy** during **23<sup>rd</sup> OCT to 4<sup>th</sup> Nov** at Vardhaman College of Engineering. 2018
5. Organized an Event International project Competition **IEEE ss12 & Maker Fair Education** during **8<sup>th</sup> march to 12<sup>th</sup> April 2018** at Vardhaman College OEngineering in collaboration with **IITB**
6. Attended **CCNA R&S (Module III and IV) Instructor training** from **CICSO Academy Education** during **8<sup>th</sup> march to 12<sup>th</sup> April 2018** at Vardhaman College Of Engineering in collaboration with **IITB –Bombay**.
7. Attended **CCNA R&S (Module III and IV) Instructor training** from **CICSO Academy** during **21<sup>st</sup> May to 2<sup>nd</sup> June at MVSR Engineering college ,Hyderabad.** 2018
8. Acted as **Session chair in 1<sup>st</sup> International conference on Advanced Machine Learning and Soft Computing (ICMLSC-2018)** at Vardhaman College Of Engineering during **22<sup>nd</sup> and 23<sup>rd</sup> June 2018**during **21<sup>st</sup> May to 2<sup>nd</sup> June at MVSR Engineering college ,Hyderabad.**
9. Attended **CCNA R&S (Module I and II) Instructor training** from **CICSO Academy** during **23<sup>rd</sup> OCT to 4<sup>th</sup> Nov** at Vardhaman College of Engineering. 2018
10. Attended a One Week Faculty Development Programme on **“Artificial Intelligence and machine Learning** “at Vardhaman College Of Engineering –Hyderabad during **5<sup>th</sup> -10<sup>th</sup> Feb 2018.**
11. Attended a Four Week Faculty Development Program on (FDP101X) on **Foundation Program in ICT for Education** during **8<sup>th</sup> march to 12<sup>th</sup> April 2018** at Vardhaman College Of Engineering in collaboration with **IITB –Bombay.**
12. Attended **CCNA R&S (Module III and IV) Instructor training** from **CICSO Academy** during **21<sup>st</sup> May to 2<sup>nd</sup> June at MVSR Engineering college , Hyderabad.** 2018
13. Acted as **Session chair in 1<sup>st</sup> International conference on Advanced Machine Learning and Soft Computing (ICMLSC-2018)** at Vardhaman College Of Engineering during **22<sup>nd</sup> and 23<sup>rd</sup> June 2018**
14. Attended a **4<sup>th</sup> International conference on Transformations In Engineering Education – ICTIEE 2017** at Vardhaman College of Engineering Hyderabad during **6<sup>th</sup> -8<sup>th</sup> Jan 2017**
15. Development Programme on **“Emerging trends in Computer Science and Engineering** “at Vardhaman College Of Engineering –Hyderabad during **8<sup>th</sup> -4<sup>th</sup> June 2017.**
16. Conducted a Event National level competition “IEEE ss12 & Maker Fair ,Prelims(2k17) during **30<sup>th</sup> June 2017**
17. Acted as Session chair in **1<sup>st</sup> International conference on Advanced Machine Learning and Soft Computing (ICMLSC-2018)** at Vardhaman College Of Engineering during **22<sup>nd</sup> and 23<sup>rd</sup> June 2018**Finale(2017)” held on **8<sup>th</sup> -9<sup>th</sup> September 2017** at Vardhaman College Of engineering.
18. Completed certification on **IUCEE International Engineering Educator Certification program** Awarded : **20<sup>th</sup> May 2016**
19. Presented a paper entitled **“Static Program Behavior Tracing for Program Similarity Quantification”** in **1<sup>st</sup> International conference on Computational Intelligence and Informatics (ICCII-2016)** JNTUH-Hyderabad during **28<sup>th</sup>-30<sup>th</sup> May 2016**

20. Attended a Two Week Faculty Development Programme on “**Entrepreneurship** “ at Vardhaman College Of Engineering –Hyderabad organized **EDI- INDIA, Bangalore** supported by **NSTE,DST, Government of India** during 7<sup>th</sup> - 19<sup>th</sup> Nov 2016
21. Attended a Seminar on “**Multimedia Data Retrieval**” at Vardhaman College Of Engineering , Hyderabad on 11<sup>th</sup> Nov 2014.
22. Attended a One Week Faculty Development Programme on “**Lecturer Series on Computer Science Core Concepts** “ at Vardhaman College Of Engineering –Hyderabad during 19<sup>th</sup> -25<sup>th</sup> Nov 2014.
23. Coordinated a Faculty Development Programme on “**Lecturer Series on Computer Science Core Concepts** “ at Vardhaman College Of Engineering Hyderabad during 19<sup>th</sup> -25<sup>th</sup> Nov 2014
24. Attended a Two-Week Faculty Development Programme on “**Professional Learning** “ held during 5<sup>th</sup> -14<sup>th</sup> Aug 2013 Vardhaman College of Engineering ,Hyderabad.
25. Attended a Three -Day National Workshop on “Modern Statistical Techniques & Information Security “organized by the Department of Mathematics ,NIT Warangal Under TEQIP-II during 19<sup>th</sup> -21<sup>st</sup> Dec 2013
26. Attended a Two- Day National Level Work Shop on “**Loophole Ethical Hacking**” Conducted on 11<sup>th</sup> - 12<sup>th</sup> Dec 2013 Organized by VITS Hyderabad

#### International/National Journals from the Year 2017

1. **Raman Dugyala**<sup>1</sup>, N.HanumanReddy,<sup>1</sup> V.UmaMaheswari,<sup>1</sup> GouseBaig Mohammad,<sup>1</sup> **Fayadh Alenezi**,<sup>2</sup> and **Kemal Polat** ” Analysis of Malware Detection and Signature Generation Using a Novel Hybrid Approach” Application of Mathematical Methods in Nature-Inspired Computation volume 2022 year 2022
2. Gouse Baig Shitharth,;Syed, Salman Ali, **Dugyala, Raman**, Rao, K.Sreenivas ad,Alenezi, Fayadhe,Althubiti, Sara A ,Polat, Kemal “Mechanism of Internet of Things (IoT) Integrated with Radio Frequency Identification (RFID) Technology for Healthcare System” Mathematical Problems in Engineering Volume 2022, Article ID 4167700, 8 pages <https://doi.org/10.1155/2022/4167700>
3. Ashwani Kumar, **Raman Dugyala**, Pronaya Bhattacharya Prediction of Loan Scoring Strategies Using Deep Learning Algorithm for Banking System 2021, pp 115-121.
4. Vikram Narayandas<sup>1</sup>, Maruthavanan Archana<sup>2</sup>, **D. Raman**<sup>3</sup> “Concerns of Modern IoT Exploration over Attainments of Past Observational Challenges in IoT” International Journal of Innovative Technology and Exploring Engineering PP: 18-23 | Volume-10 Issue-5, March 2021
5. Vikram Narayandas<sup>1</sup>, Maruthavanan Archana<sup>2</sup>, **D. Raman**<sup>3</sup> “The Role of MANET in Collaborating IoT End Devices: A New Era of Smart Communication” International Journal of Interactive Mobile Technologies (IJIM) Volume 15, Year 2021, Pages 80-92
6. Vanaja Malgari, **Dr. Raman Dugyala** “A SURVEY ON DATA SECURITY IN DISTRIBUTED CLOUD COMPUTING “, International Journal of Emerging Technologies and Innovative Research Volume 6, Year 2019, Pages 587-590
7. **Raman Dugyala**<sup>1</sup> \*, N Hanuman Reddy<sup>2</sup> , Raghuram G 3 J Lakshminarayana “Decentralized secure online digital data registrations” International Journal of Engineering and Technology (UAE) Volume 7, Year 2018, Pages 42-44
8. Chandra Sekhar Reddy, N.; Rama, B.; Madhuravani, B.; **Dugyala, R.**; Rajasekhar, N. “Mobile network services from the presence cloud” International Journal of Pure and Applied Mathematics, Volume 119 No. 14 Year 2018, 95-100
9. **Dugyala, R.**; Hanuman Reddy, N.; Chandra Sekhar Reddy, N.; Phani Prasad, J “A roadmap to security in IoT” International Journal of Applied Engineering Research Volume 12, Year 2017, Pages 8270-8272

#### Conferences:

1. S. K. Prashanth, **D. Raman** “Optimized Dynamic Load Balancing in Cloud Environment Using B+ Tree” Advances in Intelligent Systems and Computing Volume 1311 AISC, Year 2021, Pages 391-401 2021
2. **D. Raman**, , G. Vijendar Reddy, Ashwani Kumar & Sathish Vuyyala “Efficient Machine Learning Model for Intrusion Detection—A Comparative Study”Advances in Intelligent Systems and Computing Volume 1311 AISC, Year 2021, Pages 435-444
3. C. Deeksha 1 ; D. Manasa Reddy 1 ; K. Samyuktha 1 ; **R. Dugyala** 1 “Analysis and prediction of accidents “ 4th Smart Cities Symposium (SCS 2021), 2021 p. 131 – 134
4. A.Shaik, J.Suram, **R.Dugyala** “Symptomatic Covid-19 detection” 4th Smart Cities Symposium (SCS 2021), International 2021
5. Tejasree Ganji<sup>1</sup>, Muni Sekhar Velpuru<sup>2</sup> and **Raman Dugyala**<sup>1</sup> “Multi Variant Handwritten Telugu Character Recognition Using Transfer Learning” , Materials Science and Engineering ,Volume 1042, Pages 1-10 2021

6. Vanaja Malgari , **Raman Dugyala** , Ashwani Kumar "A Novel Data Security Framework in DistributedCloudComputing" Proceedings of the IEEE International Conference Image Information Processing ,Volume 2019-November, Year 2019, Pages 373-378
7. **Raman D.**;Bezawada B.;Rajinikanth T.V.;Sathyanarayan S." Static program behavior tracing for program similarity quantification" Advances in Intelligent Systems and Computing, **Volume 507, Year 2017, Pages 321-330**
8. Bezawada B.;Kothapalli K.;**Raman D.**;Li R." Symmetric Key Based Secure Resource Sharing" Communications in Computer and Information Science, **Volume 746, Year 2017, Pages 179-194**
9. **Dugyala R.**;Reddy N.H.;Kumar S." Implementation of SCADA Through Cloud Based IoT Devices - Initial Design Steps" Proceedings of the IEEE International Conference Image Information Processing, **Volume 2019-November, Year 2019, Pages 367-372**
10. Narayandas V.; **Dugyala R.**;Tiruvayipati S.;Yellasiri R." Necessity of MANET implementation over Internet of Things: The Future of Dynamic Communication among End Devices" Proceedings of the IEEE International Conference Image Information Processing, **Volume 2019-November, Year 2019, Pages 359-362**