

Name of Faculty Dr Y C A Padmanabha Reddy
 Designation Associate Professor
 Nature of Job/Appointment Regular
 Date of Joining 06-03-2024
 E-mail padmanabhareddy_cseaiml@cbit.ac.in



Education Qualifications	Name of the Degree	Class
Ph. D	Doctor of Philosophy (CSE) Jawaharlal Nehru Technological University Anantharamu ,(JNTUA)	Awarded
PG	M. Tech (CSE)	First Class with Distinction
UG	B.Tech (CSE)	First Class

Work Experience

Teaching 13 Years
 Research 08 years
 Industry --

- Others
1. Ratified Assistant Professor by JNTUA (2014) & JNTUH (2021)
 2. **Ratified Associate Professor by JNTUH (2023)**
 3. **Successfully Completed 4 months of Research Internship at IIIT Sricity, Chittoor, under the guidance of my Supervisor Dr P Viswanth, Associate Professor in CSE**
 4. Recognized Research Supervisor by JNTUH (2023)
 5. Evaluated Thesis from CSE Dept., Kadi Sarva Vishwa Vidyalaya, Gandhinagar, Gujarat.
 6. **Reviewer in IEEE Transactions in Artificial Intelligence (Journal)**
 7. Reviewer for SCI Journal Computer Systems Science and Engineering
 8. **Program Committee Member and Reviewer** for 4th International Conference on Communication and Intelligent Systems (**ICCIS-2022**) Organized by **NIT Delhi** during 19-20, Dec 2022.
 9. Reviewer for **27th Internation Conference on Pattern Recognition-ICPR-2024** which is Globally Recognized Conference.

Area of Specialization Pattern Recognition and Machine Learning, Data Mining, Deep Learning, Algorithms.

- Professional Memberships
1. IEEE 93364219
 2. ACM 3295556
 3. Computational Intelligence Society (CIS)
 4. Soft Computing Research Society
 5. Computer Society of India

- Responsibilities held at Institution Level
1. Performance-based Appraisal Committee Member (PBAS for AY-(2016-17)
 2. AI Coordinator (2019-21)
 3. Discipline Committee Member during-2015-16
 4. Cultural Fest Co-Coordinator –Ashv-2k14.
 5. Minor Degree-AI Coordinator.

Responsibilities held at Department Level

1. BoS Committee Member
2. Alumni Coordinator
3. Consultancy Coordinator
4. Syllabus Preparation for UG & PG (R14 and R18)
5. QEEE Department Coordinator
6. NASSCOM Coordinator for Data Analytics

Research Guidance

Recognized Research Supervisor by JNTUH

1. Received an amount of 5% incentive from Management for receiving the UGC-SERO Minor Research project Grant worth of 1.85 lakh rupees.
2. Received Certificate of Appreciation in recognition of contribution and outstanding commitment towards enriching in Research Project (UGC-Project).
3. Received Certificate of Appreciation in recognition of contribution and outstanding commitment towards enriching in Consultancy Project.
4. Mentor for Smart India Hackathon-SIH (2020) received participation certificate in Grand finale which was held during 1-2, Aug 2020.
5. Received Appreciation certificate "Best Mentor for Artificial Intelligence NPTEL Course" from IIT Madras.
6. My research got recognized and cited by MIT (Massachusetts Institute of Technology), Cambridge, USA.
7. Received Best Phenomenal Associate Professor for the year 2022 by Ideal Teaching Awards Programme (ITAP-2022).

Awards Received

Undergraduate Level:-

Introduction to AI, Data Mining and Data warehousing, AI Tools, Techniques and Applications, Introduction to Data Science, Database Management Systems, Software Engineering, Data Analysis Using R, Software Project Management, Cloud computing, Bioinformatics, Python Programming, Principles of Artificial Intelligence, Reinforcement Learning.

Courses Handled at Under Graduate / Post Graduate Level.

Postgraduate Level:-

Machine Learning, Deep Learning, Data Warehousing and Data Mining.

No. of Papers Published

National Journals – 00 International Journals – 17
National Conference – 00 International Conference – 15

Govt. Funded Projects:-

1. Completed **UGC-SERO-MRP-4609/14** with title "Semi-supervised learning and its Applications for Image and Text Categorization"-**Rs 1,85,000/-**during 2014 to 2016.
2. Successfully supported for the **UGC-SERO-MRP-46530/16** A Context-based Digital Assistant that stores and extracts Articles from National Dailies" worth of **Rs 2,20,000/** (2016-2018)

Projects Carried out

Consultancy Projects completed for Great Lakes Company Bangalore

- 1.. HR Analytics with no PGPML.G OCT-18 (Rs 20,000/-)

2.Hotel Recommender System with no PGPML.G OCT-18
(Rs 20,000/-)

UG Projects: 32, PG Projects:10

PATENTS:04

Patents

1. "A Fuzzy Based Trust Model for Identification of Trustworthy and Capable Nodes in Manet Applications" with Application No.201941041980 A. (Published)
2. "To Transmit e-Medical Records for Sharing on Block chain using Homomorphic Encryption Methods" with Application no 2020103319. (Granted)
3. "Robot Detecting Threat" with application no: 201941041980 A (Design Patent).
4. "Street Light System and Method for Generating Efficiency Energy using Renewable Energy Sources" with Application No.201941024532 A.

Technology Transfer

TOTAL NO OF KEYNOTE TALKS DELIVERED: 14

Invited Speaker

1. Delivered expert talk on "Machine Learning " during 5th January-2024 at HITAM College Hyderabad.
2. Presented recent trends in Semi-supervised learning to Prof. Eric Harvet, Department of CSE, University De Moncton, Canada on 04-10-23.
3. Acted as a Resource person in "One Week FDP on Developing Cybersecurity Models using Deep Learning Techniques" delivered a talk on "Semi-supervised Learning Models for Cyber Security" at Hindustan University, Chennai on 04th July 2023.
4. Acted as a Resource person in IET Sponsored " One Week Winter School Program on Cyber security and Deep learning" delivered a talk on "Machine Learning for Cyber Security" at Hindustan University, Chennai on 15th Dec 2022.
5. Delivered a Research talk on "Auxiliary Semi-supervised Learning" on 14th June-2022 at BVRIT Narsapur.
6. Delivered a talk on "Teaching Learning Practices" implemented for the course Data Warehousing and Data Mining on 07-May-2022 at Vedic, Aziz Nagar, Telangana.
7. Presented "Smart Traffic Management" work to Prof. Sanjay Ranka, University of Florida.
8. Acted as a Resource person in Two Weeks AICTE Sponsored FDP on "Cyber Security & Blockchain

Technology” with a session “Semi-supervised Learning for Cyber Security” at SRIT, Anantapur during 14-26, June 2021.

9. Acted as a Resource person in One week AICTE-ATAL-FDP on “Robotic Process Automation: Tools and Techniques” at Sri Venkateswara College of Engineering (SVEC), Tirupathi during 04-08, January, 2021.
10. Acted as a Resource person in One-week AICTE Sponsored STTP on “Developing Cyber Security Models based on Statistical and Deep Learning” with a session “Semi-supervised Learning Models for Models for Cyber Security” at Vishnu Institute of Technology, Bhimavaram during 22-27, February 2021.
11. Acted as a Resource person in various internal training programs on machine learning and AI, which are frequently conducted by the department of CSE and AI Team, 2020.
12. Acted as a Resource person in AICTE Sponsored STTP on “Robotic Process Automation” at the International Conference CCODE-2019 at Sri Padmavathi Mahila Vishwavidyalaya, Tirupathi on 1-2 Feb 2019.
13. As part of of MITS-Artificial Intelligence Team, conducted a one-day workshop and delivered a Guest Lecture on “An Overview of AI & Machine Learning” at Basant Theosophical College, Madanaplle on 02nd Nov 2019.
14. As part of of MITS-Artificial Intelligence Team, conducted a one-day workshop and delivered a Guest Lecture on “Machine Learning and its Applications” at Degree College for Women, Madanaplle on 19th Dec 2018.

స్వయం ప్రేక్షనీయ చర్య
BOOK CHAPTERS: 03

1. Varma, N.M.K., Padmanabha Reddy, Y.C.A., Rajesh Kumar Reddy, C.” Performance Analysis of Machine Learning Algorithms for Website Anti-phishing” conference proceedings published in Lecture Notes on Data Engineering and Communications Technologies- 2022, 111, pp. 205–213.
2. T Parameswaran, YCA Padmanabha Reddy, V Nagaveni, R Sathiyaraj “Era of Computational Big Data Analytics and IoT Techniques in Smart City Applications” published in IoT and Big Data Analytics for Smart Cities with eBook ISBN9781003217404, publisher Chapman and Hall/CRC(2022).
3. G. Ramesh, K. Shyam Sunder Reddy, Gandikota Ramu, Y.

No. of Books/Chapters Published with details

C. A. Padmanabha Reddy, J. Somasekar “An Empirical Study on Discovering Software Bugs Using Machine Learning Techniques” published in Computational Intelligence and Data Analytics with DOI 2023 DOI: 10.1007/978-981-19-3391-2_14.

Workshops/ Events Organized: 02

1. Successfully Organized a One Week FDP on “C Programming” in Collaboration with IIT Bombay”.
2. Organized 10 Alumni Guest lectures by Renowned Alumni during 2017 to 2021.

Industry Certification Courses: 05

1. Successfully completed a Course on “Python for Data Science” under Faculty Enablement Program(FEP) organized by Infosys with duration of 1 week (24-28, June-2024)
2. Successfully completed a Course on “Explore Machine Learning Using Python” under Faculty Enablement Program(FEP) organized by Infosys with duration of 1 week (24-28, June-2024)
3. Successfully completed a Course on “Natural Language Processing for Developers” under Faculty Enablement Program(FEP) organized by Infosys with duration of 1 week (24-28, June-2024)
4. Successfully completed a Course on Extensive Vision AI(EVA8) 2023 organized by “The School of AI” Bangalore with duration of 16 weeks(1st Dec 2022 to 30 March 2023)
5. Successfully completed “ 6th Summer School of AI” from 18th July 2022 to 19th Aug 2022 (4 weeks), Organized by IIIT Hyderabad.

OC/RC/STTP/FDP/ Workshops Attended: 15

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

1. Successfully attended One Week National Level Faculty Development Program on “National Education Policy-2020-Challenges of Implementation in Higher Education” at CBIT, Gandipet during 18-23, March-2024
2. Successfully attended 10 days Online “NEP Orientation and Sensitization Programme” Organized by UGC-MMTTC IIT Kharapur during 19-28, June 2024.
3. Attended Two Weeks AICTE-ATAL FDP on “Data Science and Visualization using Python” during 19-30 Dec 2022 at IIIT Sricity, Chittoor, Andhra Pradesh.
4. Attended one week FDP on “Data Engineering” at VNR VJIEIT Hyderabad during 16-20, Aug 2022.
5. Attended one-week FDP on AI & Deep Learning organized by dept. of CSE, Bennet University, Noida during 04-08, May 2020.
6. Successfully completed the course on Artificial Intelligence conducted by Dr Rao Vemuri, University of California, Davis and attended final phase at VVIT, Guntur. (Feb 2019 to Sept 2019.
7. NASSCOM Train the Trainers (ToT) Module-III program jointly organized by APSSDC and NASSCOM at JNTU Kakinada Campus, Kakinada during 14-18 December

- 2016
- 8 NASSCOM Train the Trainers (ToT) Cyber Security and Data Analytics Job Roles” Module-I Organized by APSSDC and NASSCOM at C. R. Rao Institute, Gachibowli, Hyderabad. from 07-12-2015 to 11-12-2015.
 - 9 NASSCOM Train the Trainers (ToT) Module-II program jointly organized by APSSDC and NASSCOM at Acharya Nagarjuna University, Guntur from 6-7-2016 and 10-7-2016
 - 10 Participated in the training programme on “Instructional Design and Delivery” conducted by MITs and NITTR Chennai during 22nd to 26th December 2014
 - 11 Attended One Week Hands-on Workshop on “Web Apps in Zorin Environment” from 16th to 21 June 2014 which is Organized by MITS in association with IUCEE under TEQIP-II.
 - 12 Participated in AICTE-sponsored Faculty Development Programme on “Computational Intelligence – A Social, Research and Academic Perspective” Conducted by the Department of Computer Science & Engineering, PSG College of Technology, Coimbatore during May 30 to June 12, 2013.
 - 13 Participated in AICTE-QIP Short-term course on Recent Trends in Computer Architecture Organized by the Department of Computer Science & Engineering, IIT Madras during 17-21, December 2012.
 - 14 Attended one-week International Workshop on “Data Communication IC Design” from 25th to 29th June 2012 which is Organized by MITS in association with IUCEE.
 - 15 Attended one-week International Workshop on “Research Methodology” from 11th to 15th June 2012 which is Organized by MITS in association with IUCEE.

Details of Journal Publications/
Conferences (National and
International)
International Journals: 17

1. Y. C. A. Padmanabha Reddy, Shyam Sunder Reddy Kasireddy, Nageswara Rao Sirisala, Ramu Kuchipudi, Purnachand Kollapudi “An Efficient Long Short-Term Memory Model for Digital Cross-Language Summarization” published in *Computers, Materials and Continua* (2023) with DoI:- 10.32604/cmc.2023.034072.(SCI Indexed).
2. N. K. Sharma, S. Bojjagani, Y. C. A. P. Reddy, M. Vivekanandan, J. Srinivasan and A. K. Maurya, "A Novel Energy Efficient Multi-Dimensional Virtual Machines Allocation and Migration at the Cloud Data Center," in *IEEE Access*, vol. 11, pp. 107480-107495, 2023, doi: 10.1109/ACCESS.2023.3320729.
3. Sriramulu Bojjagani, Y. C. A. Padmanabha Reddy, Thati Anuradha, P. V. Venkateswara Rao, B. Ramachandra Reddy and Muhammad Khurram Khan with title “Secure Authentication and Key Management Protocol for Deployment of Internet of Vehicles (IoV) Concerning Intelligent Transport Systems” published in *IEEE Transactions on Intelligent Transportation Systems* (2022) with DOI: 10.1109/TITS.2022.3207593 with Impact factor 8.55.
4. Sirisala Nageswara Rao, Yarava Anitha, Y. C. A. Padmanabha Reddy, and Veeresh Poola with the title “A novel trust recommendation model in online social networks using Soft Computing Methods” published in *Concurrency and Computation: Practice and Experience* (2022) with <https://doi.org/10.1002/cpe.7153>.
5. Diwakar Tripathi, B Ramachandra Reddy, Y C A Padmanabha Reddy, Alok Sukla, Ravikant Kumar and Neeraj Sharma BAT Algorithm based feature selection: application in credit Scoring“ published in *Journal of Intelligent and Fuzzy Systems*(2021) with DOI: 10.3233/JIFS-189876.(SCI Indexed).

6. J Somasekar, A. Sharma, N. Madhusudhana Reddy and Y C A Padmanabha Reddy, "Image Analysis for Automatic enumeration of RBC infected with plasmodium parasites-implications for Malaria Diagnosis" published in *Advances in Mathematics: Scientific Journal* 9(2020), no 3,1229-1237 (Scopus –Indexed).
7. J Somasekar, Y C A Padmanabha Reddy and G Ramesh, "Border Detection of malaria-infected cells in Microscopic images for Diagnosis" published in *Journal of Computational and Theoretical Nanoscience* Volume 17, pp. no 4643-4647, 2020 (Scopus Indexed).
8. R. Kuppusamy, S. Venkatraman, C.A Rishikeshan, and Y C A Padmanabha Reddy, "Deep Learning based energy efficient optimal timetable rescheduling model for intelligent metro transportation systems" published in *Physical Communication*, Volume (42) (2020) (SCI-indexed).
9. Y.C A Padmanabha Reddy, P. Viswanath, and B. Eswara Reddy, "A Fast Semi-Supervised Density-based Clustering Method", *Journal of Advanced Research in Dynamic and Control Systems* (Scopus indexed).
10. Y.C A Padmanabha Reddy, P. Viswanath, and B. Eswara Reddy, "A Fast Semi-supervised Single-link clustering method", *International Journal of Pure and Applied Mathematics* Volume 119 No 16 (2018) pp 4001-4016 (Scopus indexed).
11. Kiran Kumar, M. Sreedevi and Y C A Padmanabha Reddy, "Survey on machine learning algorithms for liver disease diagnosis and prediction" *International Journal of Engineering and Technology (IJET(UAE))*, Volume-7(18), March 2018, pp 99-102. (Scopus indexed).
12. Y.C A Padmanabha Reddy, P. Viswanath, and B. Eswara Reddy, "Semi-supervised Learning: A Brief Review", *International Journal of Engineering and Technology (IJET(UAE))*, Volume-7(18), March 2018, pp 81-85. (Scopus indexed).
13. K. Manoj, Y C A Padmanabha Reddy, K Manju Preetham, "Data Provisioning in Multi-Cloud Server For Point Failure" in *International Journal of Applied Engineering Research (IJAER)*, Aug 2015, Vol 10, No 15 (2015) ISSN 0973-4562, pp 35542-35545. (Scopus indexed).
14. K Manju Preetham, Y C A Padmanabha Reddy, K.Manoj, "Providing Data Security in a cloud transaction using two-phase validation" in *International Journal of Emerging Technology in Computer Science & Electronics. (IJETCSE)*, Aug 2015, vol 17 issue 1, ISSN 0976-1353, pp. no: 57-61.
15. P. Venkatsai Chandrakanth, Y C A Padmanabha Reddy, S. Mohammad Ghouse, "A Novel Approach to improve TNNC using Leaders Algorithm" in *Journal of Computer Science and Applications (JCSA)*, vol 6, No 2, ISSN 1270-223, pp no 79-89,2014.
16. B. Veerashekhhar Reddy, Y C A Padmanabha Reddy, S. Mohammad Ghouse, "A Novel Approach for Transductive Decision Tree". in *International Journal of Computer Science and Information Technologies (IJCSIT)*, Sept 2014, Vol 5 No 6 ISSN 0975-9646, pp. no 6985-6988.
17. S. Mohammad Ghouse, Y C A Padmanabha Reddy, "An Enhancement for Transductive Nearest Neighbour Classification" in *International Journal of Advanced Computing*, July 2012, Vol.35 Issue 2, pp no 361-366.

International Conferences: 15

1. Padmanabha Reddy, Y.C.A. S. L. Vemuri, T. P. Mahan, V. S. Teja and V. Anil "A Semi-Supervised Deep Learning Approach for Detection and Classification of Lung Diseases," *2023 IEEE Silchar Subsection Conference (SILCON)*, NIT Silchir, India (2023), pp 1-6.

2. Malli P Pallavi, Kondakalla B, Padmanabha Reddy, Y.C.A., Kondaveeti. B, "Vehicle Detection, Classification and Counting" in 2023 International Conference on Computational Intelligence, Communication Technology and Networking, CICTN 2023, pp 631-636.
3. Babu, S., Samudrala, S., Pulabaigari, V., Padmanabha Reddy, Y.C.A., Babu, C.M." "Gemini: Graph-based Versatile News Search Engine" in 2023 International Conference on Intelligent Systems for Communication, IoT and Security, ICISCoIS 2023, pp. 516–520, 2023.
4. Subbarao, M.V., Sindhu, J.T.S., Padmanabha Reddy, Y.C.A.Vasavi, K.P., Ram, G.C."Performance Analysis of Feature Selection Algorithms in the Classification of Beans using KNN and Neural Networks" in 2nd International Conference on Sustainable Computing and Data Communication Systems (ICSCDS 2023- Proceedings, 2023 pp. 539–54(2023).
5. Diwakar Tripathi, Padmanabha Reddy, Y.C.A. Shailendra Kumar, B Ramachandra Reddy, Ram Kishan Devagan, " Experimental result analysis of extreme learning machine with various activation functions: An application in Credit Scoring" published in the Proceedings of Springer LNEE series of Machine Vision and Augmented Intelligence(MAI-2022).
6. Y C A .Padmanabha Reddy., Sagar, S.P.P., Kalyan, R.P., Charan, N.S. "Classification of Hotel Reviews using Machine Learning Techniques" published in Proceedings of "8th International Conference on Smart Structures and Systems, ICSSS- 2022", pp 1-5, 2022.
7. Padmanabha Reddy, Y.C.A., Parameswaran, T., Sathiyaraj, R. "A Smart Environment Monitoring Framework Using Big Data and IoT" 2021 IEEE Mysore Sub Section International Conference, MysuruCon 2021, pp. 399–404,2021.
8. A Komala and Y C A Padmanabha Reddy, with a title "Context-based News Articles retrieval using CLSM" published in International Conference on Computing Methodologies and Communication (ICCMC-2021), IEEE Explorer 2021, pp. 1520–1523, 9418018.
9. Y C A Padmanabha Reddy and Mohan Krishna Varma, with a title "A Review on Supervised Learning Techniques" published by Springer in Advances in Intelligent Systems and Computing, Vol 1054, 2020.
10. Y C A Padmanabha Reddy, P. Viswanath, B. Eswara Reddy, "Semi-supervised Single link clustering method" in IEEE International Conference on Computational Intelligence & Computing Research during 15-17 Dec 2016 at Chennai.
11. P. Viswanath, J. Rohini Y C A Padmanabha Reddy, "Query Performance Prediction Using Joint Inverse Document Frequency of Multiple Terms" International Conference on Emerging Trends in Electrical, Communication and Information Technologies.ICECIT-2015 at Anantapur.
12. Jyothi Bellary, Y C A Padmanabha Reddy with the title "K-means Spherical Clustering with large variance in size" presented a paper in the International Conference on Computing and Control Engineering (ICCCE-2012), at MGR University, Chennai.
13. Akbar, Y C A Padmanabha Reddy, T. Hitendra Sharma, presented a paper "Automatic Decision Supporting System for Universities" in the International Conference on Emerging Trends in Electrical, communication and Information Technologies.ICECIT-2012 during 21-23, Dec 2012 at Anantapur.
14. P Viswanath, K. Rajesh, C. Lavanya, Y C A Padmanabha Reddy, presented a paper "A Selective Incremental Approach for Transductive NNC", in Recent Advances in Intelligent Computational Systems (RAICS-2011) during 22-24, Sept, 2011 at IEEE Kerala Section Region 10, Thiruvananthapuram.
15. T. Hitendra Sharma, Y C A Padmanabha Reddy, P Viswanth with title "Recent Trends in Data Clustering" in International Conference on Nanoscience & Advanced Computing (ICNEAC-2011), Narsapur, AP.