

Name of Faculty Dr. Satyanarayana Nimmala
 Designation Associate Professor
 Nature of Job/Appointment Regular
 Date of Joining 29 – 08 - 2023
 E-mail satyanarayananimmala_aids@cbit.ac.in



Education Qualifications

	Name of the Degree	Class
(Ph. D)	Doctor of Philosophy (Computer Science Engineering) UCE, Osmania University Hyderabad.	Awarded
PG	M. Tech. (Computer Science) JNTU, Hyderabad.	First Class with Distinction
UG	B. Tech. (Computer Science Engineering) UCE, Kakatiya University, Bhadradi Kothagudem.	First Division with Distinction

Work Experience

Teaching	16 Years (Includes Research Experience)
Research	5 Years
Industry	----
Others	----

Area of Specialization Data Mining, Machine Learning, Operating Systems, Database Management Systems, Programming & Data Structures

Professional Memberships Life Member of LMISTE – LM76100.
 Lifetime Professional Member of INSC
 Member of IFERP – 98259178
 Member of IAENG – 345549
 Member of CSTA – 198358018789
 Member of SWIDC - 6352

Responsibilities held at the Institution Level Mentor for the First Year AI & DS -1 (Induction Program) for the academic year 2023-24 at CBIT

Responsibilities held at the Institution Level Member of Anti–Ragging Duties from Dept. of AI & DS for the Academic Year 2023-24 at CBIT.

Responsibilities held at the Department Level Worked as HOD, IT at Laqshya Institute of Technology and Science Khammam.

Responsibilities held at the Department Level Worked as Coordinator CSE - Data Science Program at CVR College of Engineering, Hyderabad.

Research Guidance -----

Awards Received Received Best Researcher Award - 2021 by Science Father (International Awards on Science, Health, and Engineering, SHEN 2021 Awards. Identification Number: 22491)

Awards Received Received Research Excellency Award - 2023 by InSc Institute of Scholars.

Awards Received Secured 94% (Topper of Top 1%) in the NPTEL online certification course on Introduction to Programming in C, in 2019.

Awards Received Secured State Rank in S.S.C(from Government School)

Awards Received Secured State Rank in Intermediate First Year

Awards Received Secured All India GATE rank Conducted by Indian Institute of Technology and Science Kanpur in the year 2007.

Awards Received Qualified UGC NET DEC 2014 for Assistant Professor

Awards Received Qualified AP-TS SET 2014 for Assistant Professor

C and Data Structures
Operating Systems
Data Base Management Systems
Data Warehousing and Data mining
Advanced-Data Structures Through C++
Object Oriented Programming Through C++
Object Oriented Programming Through Java
Software engineering
UNIX and Shell Programming.

Courses Handled at Under Graduate /
Post Graduate Level.

NPTEL Online Certification Courses Done:

Introduction to Programming in C
Python for Data Science
Introduction to Machine Learning
Data Analytics with Python

No. of Papers Published National Journals – 02 International Journals – 14
National Conference – 0 International Conference – 03

Projects Carried out --

Patent 1:
Title of the Invention: Smart Automated Device to Predict High Blood Pressure Based on Bio-Psychological Parameters.
Application No: 202141005184A
Publication Date: 12/02/2021
Patent type: Indian, Utility patent

Patent 2:
Title of the Invention: Machine Learning-Based Automatic Meat Freshness Detector.
Application No:202341052697, Indian Patent Filed on 05/08/2023)
Publication Date: 01/09/2023
Patent type: Indian, Utility patent

Patent 3:
Title of the Invention: Variable Pesticide Mixture and Spraying System for Agriculture Using a Drone with Onboard Video Anal. Detector
Application No.202341052696
Publication Date: 01/09/2023
Patent type: Indian, Utility patent

Patent 4:
Title of the Invention: Soil-based Edge AI-Driven Crop Recommendation System
Application No.202341058245
Publication Status: Filed
Patent type: Indian, Utility patent

E-Content Developed (YouTube Channel): 03 Courses
<http://tinyurl.com/DrSatyanarayanaNimmala>

Professional Service:
Reviewer for the Journal of Computers in Biology and Medicine
Reviewer for IEEE Journal of Biomedical and Health Informatics
Reviewer for the Journal of Intelligent and Fuzzy Systems
Worked as Management Representative for ISO 9001-2008 (Quality Management System) Certification

Conference Reviewer for:
ETCTA 2021
MIWAI 2023

Invited Speaker

Delivered a Session on ML Models for disease diagnosis and Bio-Inspired Optimization Techniques in an FDP on Research Challenges, Issues, and Trends in Soft Computing and Machine Learning Organized by the Department of Computer Science and Engineering in association with E & ICT Academy, NIT Warangal (Sponsored by Ministry of Electronics and Information Technology (MeitY), GOI) during August 09-18, 2021.

No. of Books/Chapters Published with details

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

1. R. Sahith, P. Vijay Paul Reddy, Dr. N. Satyanarayana, "Decision Tree based machine learning algorithms to classify rice plant disease- A Recent study", eBook: Advanced Aspects of Engineering, BP International Publisher, ISBN: 78-93-91215-96-5 (Print), 978-93-91215-97-2 (eBook), published on: June 28, 2021
2. Organized a 3-week FDP for Skill Enhancement On Advanced Java Programming from 20-02-2023 to 11-03-2023 at CVR College of Engineering
3. Organized a 2-day workshop on Neural Networks & Deep Learning from 9-12-22 to 10-12-22 at CVR College of Engineering
4. Organized a 2-day workshop on Big Data Analytics through Apache Hadoop, Spark, and Tableau from 2-12-22 to 3-12-22 at CVR College of Engineering
5. Organized a 3-day workshop on Cyber Security and Ethical Hacking from 25-11-22 to 28-11-22 at CVR College of Engineering
6. Organized an FDP on "Research challenges, issues and trends in Soft Computing and Machine Learning in association with E & ICT Academy, NIT Warangal, sponsored by the Ministry of Electronics and Information Technology (MeitY), India, from August 9th to 19th 2021.
7. Attended a 5-day online short-term course on Cyber Security and Cryptography Organized by Dept. of CSE, CVRCE and CCE, NITW from 27-01-2023 to 31-01-2023
8. Attended an ISTE-approved 5-day online FDP on Modern Artificial Intelligence Enabled Engineering Applications held from 20-12-2022 to 24-12-2022 organized by CVR College of Engineering.
9. Attended a 5-day online short-term course on Advanced Trends and Challenges in AI Organized by Dept. of CSE, CVRCE and CCE, NITW from 28-11-2022 to 2-12-2022
10. Attended and Completed 8 weeks of NPTEL-AICTE FDP on Introduction to Programming in C, July-Sep 2019 (online course)
11. Attended a one-week FDP on "Emerging Trends, Issues and Challenges in Big Data and Cloud Computing", conducted by the Dept. of CSE, CBIT, Hyderabad (20th& 25th February 2017).
12. Attended a one-week FDP on "Data Science and Big Data Analytics", organized by Electronics & ICT Academy NIT, Warangal, and Dept. of CSE, IT CVRCE, Hyderabad. (19th-24th, August 2016).
13. Attended A four-day short-term training program on "DATA MINING: Research Challenges & Innovations" Organized by NIT GOA, DEPT of CSE from 06-09, July 2015.
14. Attended a two-day workshop on "Next Generation devices and computing", conducted by Dept. of CSE, CBIT, Hyderabad (28th& 29th November 2014).
15. Attended three days' Workshops on "Engineering Research Methodology" held at the Department of Civil Engineering, University College of Engineering, Osmania University, Hyderabad during 26-28, August 2013, Telangana, India.
16. Attended a two-day national-level workshop on next-generation devices and computing conducted by the Department of Computer Science and Engineering CBIT, Hyderabad on 28th and 29th Nov 2014.
17. Attended a short-term training program on Modeling and simulation of engineering systems from 7th July to 19th July 2008 organized by the Center for Automation and Instrumentation, Sponsored by MHRD Govt. Of India at NIT Warangal, A.P, India.
18. Attended a workshop on teaching-learning methodologies conducted by the Institute of Public Enterprise Osmania University campus Hyderabad at LITS Khammam, A.P, and India.
19. Attended a workshop on Efficient Teaching Methods and Human Relations addressed by Mr. G. Nageswer Rao Head Trainer JCI University USA at LITS Khammam, A.P, and India.
20. Attended three days' Workshops on "Engineering Research Methodology" held at the Department of Civil Engineering,

Details of Journal Publications/
Conferences (**National and
International**)

International Journals:

1. Rella Usha Rani, P. Sankara Rao, Kothapalli Lavanaya, **Nimmala Satyanarayana**, Sudula Lallitha, and Phani Prasad J. Optimization of Energy-Efficient Cluster Head Selection Algorithm for Internet of Things in Wireless Sensor Networks (International Journal on Recent and Innovation Trends in Computing and Communication, Scopus Indexed), April 2023.
2. Bandi Rambabu, B Vikranth, S Anupkanth, Banoth Samya, and **Nimmala Satyanarayana**. Spread Spectrum based QoS aware Energy Efficient Clustering Algorithm for Wireless Sensor Networks (International Journal on Recent and Innovation Trends in Computing and Communication, Scopus Indexed), Jan 2023.
3. **Satyanarayana Nimmala**, B Vikranth, Syed Muqthadar Ali, Rella Usha Rani, and Bandi Rambabu. An Intelli MVC: An Intelligent majority voting and heuristic-based hybrid classifier to predict high blood pressure. (Journal of Intelligent and fuzzy systems, SCIE, Scopus, DBLP Indexed) April 2022.
4. **Nimmala Satyanarayana**, Y Ramadevi, K Manasa, and Bandi Rambabu. An Intelli AFM: An Intelligent Association-based Fuzzy Rule Miner to predict high blood pressure using Bio-Psychological factors (Journal of Intelligent Technologies, ESCI, Scopus, DBLP Indexed) June 2020.
5. **Satyanarayana Nimmala**, Y Ramadevi, B Ashwin Kumar, and R Sahith. An intelligent AAA++ approach to Predict High Blood Pressure using PARP Classifier (Journal of Clinical Epidemiology and Global Health, ESCI, Scopus Indexed) March 2019.
6. R. Sahith, P. Vijaya Pal Reddy, and **Satyanarayana Nimmala**. Decision Tree-based Machine Learning Algorithms to Classify Rice Plant Diseases, International Journal of Innovative Technology and Exploring Engineering (IJITEE, Scopus Indexed), Nov 2019.
7. **Satyanarayana Nimmala**. Machine learning approaches to classify diabetes patients based on age, obesity, and cholesterol level in CVR Journal of Science and Technology, volume 16, June 2019.
8. **Satyanarayana Nimmala**, Y Ramadevi, R Sahith, and Ramalinga swamy Cheruku. High Blood Pressure Prediction based on AAA++ using Machine Learning Algorithms (Journal of Cogent Engineering, ESCI & SCOPUS Indexed) July 2018.
9. **Satyanarayana Nimmala** and D Sujan Kumar. High Blood Pressure based on AAA++ using the J48 Algorithm in CVR Journal of Science and Technology, volume 14, June 2018.
10. **Satyanarayana Nimmala**, Y Ramadevi, and B Aswian Kumar. An Innovative Computational Model to Predict High Blood Pressure based on AAA++ (International Journal of Engineering & Technology, Scopus Indexed, SCOPUS Indexed) June 2018.
11. Thota Lavanya, **Nimmala Satyanarayana**, Manasa. K. Heart disease prediction using random forest algorithm (Global Journal of Engineering Science and Researches) August 2018.
12. **Nimmala Satyanarayana**, Y. Ramadevi, and Avinash Amaranayani. Predicting High Blood Pressure using Age and Obesity (International Journal of Computer & Mathematical Sciences) September 2017.
13. **Satyanarayana Nimmala**, Y Ramadevi, and R Sahith. Influence of Anger and Anxiety in Elevating the Blood Pressure: Using Machine Learning Approaches (International Journal of Advanced Research in Computer Science) April 2018.
14. **Satyanarayana Nimmala**, Y Ramadevi, Ramalingaswamy Cheruku. A Novel Approach to Predict High Blood Pressure using ABF Function (J. Modern Education and Computer Science) July 2018.
15. **N Satyanarayana**, CH Ramalingaswamy, and Y Ramadevi. Published a paper on the Survey of Classification Techniques in Data Mining (International Journal of Innovative Science, Engineering and Technology) in November 2014.
16. **N. Satyanarayana**, Sk. Sharfuddin, and SK. Jan Bhasha. New dynamic query optimization technique in relational database management systems. (International Journal of Communication Networks and Security) Jan 2014.

International /National Conferences:

1. **Nimmala Satyanarayana**, Y Ramadevi, and K Koteswara Chari. High Blood Pressure Classification Using Meta-heuristic Data-Centric Hybrid Machine Learning Model (International Conference on Advanced Network Technologies and Intelligent Computing, ANTIC 2022, published in Communications in Computer and Information Science, Springer Book Series).

2. **Nimmala Satyanarayana**, Y Ramadevi, and K Koteswara Chari. Predicting High Blood Pressure based on AAA using J48 Classifier (SPACES 2018 at KL University, Vijayawada, AP. Published in IEEE Explorer).

3. **Satyanarayana Nimmala**, Y Ramadevi, Srinivas Naik Nenavath and Ramalingaswamy Cheruku Predicting High Blood Pressure using Decision Tree Based Algorithm (LAMDA, 2017 at NIT Goa, India. Published in AISC Series SPRINGER).

