

RESUME



Venkata Subbaiah Desanamukula

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Discipline : Computer Science & Engineering

Objective

As a part of my life time ambition, I want to do research in various Varsities and serve the students in Academic Environment.

Experience Summary: 17 Years- Teaching and 4 Years -Research (21 Years)

- Working as Professor of CSE department, in Lakireddy Bali Reddy College of Engineering (autonomous), Mylavaram from 04-Aug-2021 to Till Date. (Ratified as Professor by JNTUK Kakinada on 02-12-2024)
- Worked as Research Scholar (**Under Visvesvaraya Ph.D Scheme Supported by Ministry of electronics and Information Technology (MeitY), Government of India**) from CS&SE department, AUCE (A), Andhra University- Visakhapatnam from May-2017 to July-2021 (Full Time).
- Worked as Assoc. Professor of CSE Department in Priyadarshini College of Engineering and Technology-Nellore from Aug-2010 to Apri-2017.
- Worked as Assoc. Professor of CSE Department in Malineni Lakshmaiah Institute of Engineering and Technology-Nellore from Nov-2008 To Aug-2010.
- Worked as Assoc. Professor of CSE Department in Narayana Engineering College-Gudur from May-2007 to Oct-2008.
- Worked as Asst. Professor of CSE Department in Priyadarshini College of Engineering, Sullurpet from May-2005 to May-2007.
- Worked as Asst. Professor of CSE Department in Dr.Samuel George Institute of Engineering and Technology-Markapur from July-2001 to Aug-2003

Educational Qualifications: B.Tech, M.Tech and Ph.D(Full Time)

- Ph.D(FT)** : Completed PhD (Computer Science and Systems Engineering) from Andhra University college of Engineering (A), Andhra University-Visakhapatnam in July-2021
(Under Visvesvaraya Ph.D Scheme Supported by Ministry of electronics and Information Technology (MeitY), Government of India)
- Post Graduation** : Completed **M.Tech(Software Engineering)** from Bharath Institute of Higher Education and Research (BIHER)-Chennai. In May-2005
- Graduation** : Completed **B.Tech(Computer Science & Engineering)** from V.R.Siddartha Engineering College-Vijayawada, Affiliated to ANU Guntur in May-2001.

Research Details

Area: Major: Data Science
Minor: Machine learning

Topic: A Robust Post Active Driving Assistance System with an Intuitive Driver Centric drowsiness alerting mechanism.

Research Supervisor: **Prof. P.V.G.D.Prasad Reddy**
Former Vice-Chancellor, Andhra University,
Visakhapatnam.

Administrative and Other Experience

- Involved in all the activities of the department including JNTU, AICTE.
- Acted as Exam Cell Co-ordinator.
- Guided many projects for PG(M.Tech & MCA) and UG(B.Tech) Students.

Courses taught

- Theory of Computation
- Machine Learning
- Pattern Recognition
- Data warehousing and Data Mining
- Compiler Design
- C & Data Structures
- Computer Organization
- Computer Networks
- Operating System
- Database Management Systems
- Software Project Management
- Software Testing Methodology
- Mathematical Foundations of Computer Science
- Universal Human Values2: Understanding Harmony
- Design Thinking and Innovation

Research Publications

Scopus ID : 57221661594

WOS ID : MBA-1668-

Vidwan ID : 223001

International Journals:

1. D Venkata Subbaiah et.al."AMMDAS: Multi-Modular Generative Masks Processing Architecture with Adaptive Wide Field-of-View Modeling Strategy," in **IEEE Access**, volume 8, PP: 198748-198778, 2020, doi: 10.1109/ACCESS.2020.3033537.
2. D Venkata Subbaiah et.al. "l,r-Stitch Unit: Encoder-Decoder-CNN based Image-Mosaicing mechanism for stitching Non-homogeneous Image sequences", In **IEEE Access**, Volume 9, PP: 16761-16782, 2021, doi: 10.1109/ACCESS.2021.3052474
3. D. Venkata Subbaiah et.al. "Driver Drowsiness Detection System based on Infinite Feature Selection Algorithm and Support Vector Machine" in International Journal of Knowledge-Based and intelligent engineering systems ISSN: 1327-2314, Volume 25, Issue 4 Pages:439-448, DOI 10.3233/**KES**-210087
4. V.S Desanamukula et.al. "Regression Based Price Prediction of Staple Food Materials Using Multivariate Models", in **Scientific Programming (Hindawi)**, Volume-2022, Article ID: 4572064, DOI: <https://doi.org/10.1155/2022/4572064>
5. V.S.Desanamukula et.al. "A mass correlation based deep learning approach using deep Convolutional neural network to classify the brain tumor" , in Biomedical Signal Processing and Control, Volume 81, March 2023, 104395, ISSN 1746-8094, DOI: <https://doi.org/10.1016/j.bspc.2022.104395>.

6. V.S.Desanamukula, “Enhancing security and efficiency in Mobile Ad Hoc Networks using a hybrid deep learning model for flooding attack detection”, **Scientific Reports** | (2025) 15:818 DOI: | <https://doi.org/10.1038/s41598-024-84421-0>.
7. V.S.Desanamukula et.al. “Enhanced deep learning models for automatic fish species identification in underwater imagery”, *Heliyon*, Volume 10, Issue 15, e35217, DOI: <https://doi.org/10.1016/j.heliyon.2024.e35217>
8. V.S.Desanamukula et.al. “Prediction of Alzheimer's Disease Using Modified DNN with Optimal Feature Selection Based on Seagull Optimization”, *JOURNAL OF IMAGING INFORMATICS IN MEDICINE*, DEC 2024, DOI: 10.1007/s10278-024-01262-z
9. V.S.Desanamukula et.al. “Enhancing security in vehicular Ad hoc networks: A novel approach using DSFLA, SACVAEGAN, and OAEF”, *J. Integr. Sci. Technol.* 2024, 12(6), 828, DOI: 10.62110/sciencein.jist.2024.v12.828
10. V.S Desanamukula et.al. “Enhanced Speckle Noise Reduction in Breast Cancer Ultrasound Imagery Using a Hybrid Deep Learning Model”, in *Ingenierie des Systemes d'Information*, Volume-23, PP:1063-1071, September-2023.
11. V.S Desanamukula et.al. “Enhancing Privacy Protection in Online Federated Learning: A Method for Secure Face Image De-Identification Using a Modified Diffie-Hellman Algorithm”, in *Mathematical Modelling of Engineering Problems(IIETA)*, Volume-10, PP:2265-2273, December-2023.
12. V.S. Desanamukula et.al. “Leveraging Flask API and Machine Learning to Forecast Multiple Diseases”, *Communications on Applied Nonlinear Analysis*, Volume-32, No.1s(2025), DOI: <https://doi.org/10.52783/cana.v32.2145>
13. V. S. Desanamukula et.al., "Food Classification Using a Hybrid Framework with Transfer Learning and Machine Learning Models," *2025 International Conference on Advances in Modern Age Technologies for Health and Engineering Science (AMATHE)*, Shivamogga, India, 2025, pp. 1-5, doi: 10.1109/AMATHE65477.2025.11081177.
14. V. S. Desanamukula, et.al., "Multi-Model News Classification using BERT Features and Class-Balanced Resampling Techniques," *2025 3rd International Conference on Sustainable Computing and Data Communication Systems (ICSCDS)*, Erode, India, 2025, pp. 80-86, doi: 10.1109/ICSCDS65426.2025.11167483.
15. V.S.Desanamukula et.al. “An In-Depth Exploration of ResNet-50 and Transfer Learning in Plant Disease Diagnosis”, *International Conference on Inventive Computation Technologies (ICICT 2024)* DVD Part Number : CFP24F70-DVD ; ISBN : 979-8-3503-5928-2
16. V.S.Desanamukula, “Enhancing Road Safety in Diminished Vision Conditions: A Deep Learning Approach Using Faster MobileNet for Real-time Object Detection”, *Enhancing Road Safety in Diminished Vision Conditions: A Deep Learning Approach Using Faster MobileNet for Real-time Objects*

17. V.S.Desanamukula et.al. "Enhancing privacy protection in online federated learning: A method for secure face image de-identification using a modified Diffie-Hellman algorithm" in *Mathematical Modeling of Engineering Problems*, Vol. 10, No. 6, pp. 2265-2273, Dec-2023, <https://doi.org/10.18280/mmep.100642>.
18. V. S. Desanamukula and K. N. Rao, "Dealing Big Data using Improved Fuzzy C Means Based Improved Redundant Particle Swarm Optimization with Map Reduction," 2022 2nd International Conference on Innovative Practices in Technology and Management (ICIPTM), 2022, pp. 675-683, doi: 10.1109/ICIPTM54933.2022.9754185.(IEEE-2022)
19. V.S.Desanamukula et.al. "A Comprehensive Analysis of Machine Learning and Deep Learning Approaches towards IoT Security", *Proceedings of the Fourth International Conference on Electronics and Sustainable Communication Systems (ICESC-2023) IEEE Xplore Part Number: CFP23V66-ART; ISBN: 979-8-3503-0009-3*.
20. V.S.Desanamukula et.al. "An Efficient License Plate Recognition Model through Deep Learning Integration with YOLO and OCR Techniques", 2024 International Conference on Advances in Modern Age Technologies for Health and Engineering Science (AMATHE)|979-8-3503-7156-7/24/ 2024 IEEE| DOI: 10.1109/AMATHE61652.2024.10582121.
21. D. Venkata Subbaiah, et.al. "A Novel Approach for Detection of Driver Drowsiness Using Behavioural Measures", In: *Communication Software and Networks. Lecture Notes in Networks and Systems*, vol 134. Springer, Singapore.(Nov-2019)
22. D. VenkataSubbaiah, et.al, "Driver Drowsiness Detection methods: a comprehensive Survey", *International Journal of Research in advent Technology*, Vol. 7, No. 3, pp. 992-997, 2019.
23. V.S.Desanamukula et.al. "Advanced Android Malware Detection with Self-supervised Learning and Multi-model Classification" In: *Computing and Machine Learning: Proceedings of CML 2025*, Volume 1, pages: 61, Springer Nature (Jan-2026)
24. Dr. D. Venkata Subbaiah et.a, "INSTINCTIVE MUSIC GENRE DETECTION AND CATEGORIZATION OF AUDIO DATA USING MACHINE LEARNING", *Harbin Gongye Daxue Xuebao/Journal of Harbin Institute of Technology*, 54(4), 354–356. Retrieved from <http://hebgydxxb.periodicales.com/index.php/JHIT/article/view/987>
25. VS Desanamukula "Effective way to diagnosis driver drowsiness with the aid of Deep Learning Neural Network (DNN)", *Design Engineering (Toronto)*, PP:7747–7764.
26. D Venkata Subbaiah, et.al. "A Novel Approach for Detection of Node Failure in Mobile Communication", In *IJIRCCE*, Volume 6, Issue 10, October-2018

27. D Venkata Subbaiah, et.al. "Remote Process Automation of ticketing Using Otrs", In IJIRCCE, Volume 6, Issue 9, September-2018
28. D.Venkata Subbaiah et.al. "Design App Evaluator Framework for Detecting Unlicensed applications in Facebook", In IJATIR, Volume 8 Issue 16, Published on October-2016
29. D.Venkata Subbaiah et.al. " Security in Wireless Sensor Networks Using Crypto Techniques", In IJMETMR, Volume 2 Issue 6 Published on June-2015.
30. D.Venkata Subbaiah et.al. "Implementation of Dynamic Resource Allocation using Virtual Machines in Cloud Computing", In IJARCSSE, volume 5 Issue 3 Published on March-2015
31. D.Venkata Subbaiah et.al. "Multi-point Relaying based hybrid Routing protocols for MANET", In IJCSET, volume 1 Issue 6 Published on July-2011.

Patents Published/Granted

1. D Venkata Subbaiah et.al. "An Intelligent Eco-Friendly Dishwasher with Real-Time Load Sensing and Automated Resource Management", Application Number- 202641004679, Filing Date- 17/01/2026, Published in the patent office journal No: 05/2026, Dated: 30/01/2026
2. D Venkata Subbaiah et.al. "SYSTEM AND METHOD FOR REAL-TIME DRIVER BEHAVIOR AND SAFETY MONITORING", Application Number- 202541034679A, Filing Date- 09/04/2025, Published in the patent office journal No: 19/2025, Dated: 09-05-2025.
3. D Venkata Subbaiah et.al. "IOT INTEGRATED SYSTEM FOR GAS LEAKAGE DETECTION AND THREAT ZONE IDENTIFICATION AND METHOD EMPLOYED THEREOF", Application Number- 202441088188, Filing Date- 14/11/2024, Published in the patent office journal No:47/2024, Dated: 22/11/2024
4. D Venkata Subbaiah et.al. "IOT INTEGRATED SYSTEM FOR GAS LEAKAGE DETECTION AND THREAT ZONE IDENTIFICATION AND METHOD EMPLOYED THEREOF", Application Number- 202441030458A, Filing Date- 16/04/2024, Published in the patent office journal No:16/2024, Dated: 19/04/2024
5. D Venkata Subbaiah et.al. " SYSTEM AND METHOD FOR SIM CARD TRAY AUTOMATIC EJECTION AND RETRACTION BY USER AUTHENTICATION ", Application Number- 202341086939 A, Filing Date- 19/12/2023, Published in the patent office journal No: 1/2024, Dated: 05-01-2024
6. D Venkata Subbaiah et.al. " AN ARTIFICIAL INTELLIGENCE TO IDENTIFY THE BLOCKS IN THE HEART VALVES AND TARGETTED DELIVERY OF NANOPARTICLES", Application Number- 202241018235 A, Filing Date- 29/03/2022, Published in the patent office journal No: 14/2022, Dated: 08-04-2022

7. D Venkata Subbaiah et.al. "A NEW METHOD OF DATA SANITIZATION FOR THE PRIVACY PROTECTION OF CLOUD DATA IN CLOUD COMPUTING", Application Number- 2021102595, Filing Date- 15/05/2021 and granted the patent on 09 March 2022 (IP Australia)
8. D Venkata Subbaiah et.al. " A SYSTEM BASED ON MACHINE LEARNING AND ARTIFICIAL INTELLIGENCE MODULES FOR PROVIDING IOT NETWORK CONFIGURATION THROUGH USER VOICE AND GESTURE AND METHOD", Application Number- 202141023485, Filing Date- 26/05/2021, Published in the patent office journal No: 24/2021, Dated: 11-06-2021

Books Published

1. A Book with title " ARTIFICIAL INTELLIGENCE WITH MACHINE LEARNING", ISBN: 9789391257231, NITYA Publications by June- 2021.
2. A Book with title " INFORMSTION SECURITY", ISBN: 9789393694577, NITYA Publications by May- 2022

Membership of Professional Bodies

1. Professional Member, IEEE (Sr.Membership: 97548576)
2. Professional member, International Association of Engineers (Membership: 182285)

Seminars, Workshops and Short Term Courses attended

- Participated and successfully completed the 5-day online FDP on the theme " Inculcating Universal Human Values in Technical Education" Organized by All India Council for Technical Education (AICTE) from 11th April 2022 to 15th April 2022.
- Participated and successfully completed the 5-day AICTE Recognized Faculty Development Program on the theme "Energy Harvesting & Storage Materials & Devices" Conducted by Applied Science Department(National Institute of Technical Teachers training and Research-Chandigarh, Ministry of Education, Government of India) from 12th September 2022 to 16th September 2022.
- Participated and completed successfully AICTE Training And Learning(ATAL) Academy Online Advanced Faculty Development program on "Introductory Data Science and Deep Learning" from 16th Sep 2021 to 20th Sep 2021, at International Institute of Information Technology- Naya Raipur.

- Participated and completed successfully NPTEL-AICTE Faculty Development program on "Introduction to machine learning" from July-2024 to Oct-2024, at International Institute of Information Technology- Madras.
- Participated and completed successfully NPTEL-AICTE Online Advanced Faculty Development program on " Machine Learning and Deep Learning - Fundamentals and Applications" from July-2024 to Oct-2024, at International Institute of Information Technology- Madras.
- Participated and completed successfully AICTE Training And Learning(ATAL) Academy Online Advanced Faculty Development program on "IoT & Cyber Security" from 06th Sep 2021 to 10th Sep 2021, at Institute of Engineering and Management.
- Participated and successfully completed APSSDC Online Faculty Development program on "Machine learning using Python" from 16 - 08- 2021 to 04 - 09- 2021.
- Participated and completed successfully AICTE Training And Learning(ATAL) Academy Online Elementary Faculty Development program on "Formal Verification of Digital Designs" from 07th June 2021 to 11th June 2021, at PES University, INDIA
- Participated in the webinar on "Importance of Intellectual Property rights in academia" conducted by Internal Quality Assurance Cell(IQAC), Andhra University, Visakhapatnam, on 04th June 2021.
- Participated in a One Week online Faculty Development program on "Applied Data Science: Tools and Techniques" from 29th May 2021 to 2nd June 2021, Organized by the Department of Computer Science and Engineering, Lakkireddy Bali Reddy Collage of Engineering (autonomous), Mylavaram, Krishna(Dist),AP.
- Participated in a One Week online Faculty Development program on "Machine Learning and It's Applications" from 04-08, July 2020, Organized by the Department of Information Technology, Aditya Institute of Technology and management (autonomous), Tekkali Srikakulam(Dist)
- Participated in 5-Day Faculty Development program(FDP) on "Cyber Security", From 28th May 2020 to 1st June 2020, Conducted by the ANITS Visakhapatnam, Department of computer science and Engineering & Computer society of India, In association with Supraja technologies
- Participated in 5-Day national level online Faculty Development program on "Artificial Intelligence" from 22-26, May 2020, Organized by the Department of Information Technology, Sir C.R.Reddy College of Engineering, in association with National Youth council of India and BrainOVision Solutions India Pvt.Ltd.

- Participated in the Research Evaluation workshop “Visvesvaraya PhD Scheme for Electronics & IT/ITES Fifth Workshop for presentation of research work” held at Punjab Engineering College, Chandigarh during 17-19, July 2019.
- Participated in the workshop on “Full Stack Development with MEAN”, held on 13-15, Dec 2017 at the department of CS&SE, AUCE(A), Andhra University, Visakhapatnam, Andhra Pradesh.
- Participated in the workshop on “User awareness program on J-gate @ e-SS”, Organized at Andhra University Visakhapatnam, in collaboration with UGC-Inflibnet Consortia for the staff of Andhra university held on 23-24, Oct 2017
- Attended one week Faculty Development program on “Machine Intelligence& Soft computing” organized by the E & ICT academy, National Institute of Technology, Warangal, at the department of CS&SE, AUCE(A), Andhra University, Visakhapatnam, AP, from 10th July 2017.
- Attended a Two Day Faculty Development program on “Bharath Operating System Solutions (BOSS)-Minimalistic Object Oriented Linux(MOOL)” held on 16th & 17th October 2014 organized by JNTUA College of Engineering(Autonomous), Anantapuramu.
- Attended a One Day workshop on “Technology Enhanced Learning Through NMEICT-Implementation of Spoken Tutorial Project” collaboration with IIT Bombay held on 10th July 2014 organized by JNTUA College of Engineering (Autonomous), Anantapuramu.
- Attended a Two Day National level workshop on “Recent Research Trends in Computer Science & Information Technology” held on 21st & 22nd June 2013 Organized by JNTUK University College of Engineering Vizianagaram.
- Attended a Faculty Development program on “Teaching Engineering Using LabView” as part of the 2011 Indo-US Engineering Faculty Leadership Institute held on 16-18th August 2011 organized by Priyadarshini College of Engineering and Technology, Nellore, Andhra Pradesh, India.

NPTEL Certifications:

- **NPTEL Discipline Star**, Indian Institute of Technology Madras – Awarded for completing multiple NPTEL courses with elite scores.(Feb-2026)
- Got Certified with Elite from NPTEL online certification course (12 weeks) on “Introduction to Industry 4.0 and Industrial Internet of Things” in Oct-2025

- Got Certified with Elite from NPTEL online certification course (8 weeks) on “Data Science for Engineers” in Sep-2025
- Got Certified with Elite from NPTEL online certification course (12 weeks) on “Machine Learning and Deep Learning – Fundamentals and Applications” in Nov-2024
- Got Certified with Successful completion from NPTEL online certification course (8 weeks) on “Introduction to machine learning” in Nov-2024
- Got Certified Elite with silver from NPTEL online certification course (12 weeks) on “Problem Solving through Programming in C” in Oct-2021.
- Got Certified with Successful completion from NPTEL online certification course (12 weeks) on “Accreditation and Outcome Based Learning” in Sep-2021.
- Got Certified with Elite from NPTEL online certification course (12 weeks) on “Compiler Design” in April-2022
- Got Certified with Successful completion from NPTEL online certification course (8 weeks) on “Theory of Computation” in Sep-2022.

Personal Summary:

Name	:	Dr.D Venkata Subbaiah
Date of birth	:	05-03-1976
Marital Status	:	Married
Address for Communication	:	H.No.: 5-137, C/O Advocate SBI Colony, Kanuru Vijayawada-AP, INDIA

Reference:

- i) Prof. Prasad Reddy P.V.G.D, Former Vice- Chancellor,
Andhra University, Visakhapatnam.
Mobile: (+91)-9393112979

DECLARATION

The above furnished details are true to the best of my knowledge.

Place: Mylavaram,

Date:

(Dr.D VENKATA SUBBAIAH)