Dr. ASHOK REDDY KANDULA

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CAREER OBJECTIVE:

To be known as a guiding force, a successful and a motivational teacher for my students.

EXPERIENCE: Total 12 Years 7 Months till now.

➢ Working as Associate Professor in the Department of AI&DS, Seshadri Rao Gudlavalleru Engineering College, Gudlavalleru since May 2025.

➢ Worked as Assistant Professor in the Department of AI&DS, Seshadri Rao Gudlavalleru Engineering College, Gudlavalleru from March 2022 to April 2025.

➢ Worked as Assistant Professor in the Department of CSE, Seshadri Rao Gudlavalleru Engineering College, Gudlavalleru from Oct 2012 to February 2022 handled courses for Bachelor and Master of Technology in CSE department.

EDUCATIONAL QUALIFICATIONS:

Ph.D: Computer Science and Engineering from Annamalai University, Chidambaram in June 2024.

M-Tech: Computer Science and Engineering from TRR College of Engineering, JNTUH with an aggregate of **77.19 % (2011)**

B-Tech: Computer Science and Engineering from Sai Sputhi Institute of Technology, Affiliated to JNTUH with an aggregate of **67.56 % (2009)**

Inter: M.P.C from Siddhartha Jr. College, Eluru with an aggregate of **81.8 % (2005)**

S.S.C: SSC from City High School, Chintalapudi, with an aggregate of **68.33% (2003)**

RESPONSIBILITIES HANDLED:

◆ Mentor In-charge (AS&A)
◆ College Descipline Committee Member
◆ Department Overall NBA Coordinator
◆ Department Overall NAAC Coordinator
◆ Department Overall Academic Coordinator
◆ Microsoft O365 Coordinator

- In-charge, Department Examinations
- In-charge, Department Inspection & Information, NIRF
- In-charge, Training & Placements
- Advisor, Student Association
- In-charge, Innovation Center
- In-charge, App Development
- In-charge, Certifications (MTA, MOS, MCP)
- In-charge, Sports
- TCA Pearson & Certiport Exam Center
- In-charge, Project Deployment

SUBJECTS HANDLED:
- Human Computer Interaction
- Object Oriented Software Engineering
- Multimedia Application Development
- Digital Logic Design
- Computer Organization and Architecture
- Mobile Computing
- Object Oriented Analysis and Design
- Database Management Systems
- Data Warehouse and Data Mining
- Machine Learning
- Software Engineering
- Deep Learning
- Design Thinking & Innovation

PROFESSIONAL CERTIFICATIONS:

NPTEL Certification
- Object Oriented Analysis and Design
- Database Management Systems
- Computer Organization and Architecture
- Switching Theory and Logic Design

Microsoft Professional Certifications
- Windows Azure
- MVC4 Architecture
- HTML5 with CSS3 and Java Script
- MCSA: Web Applications
- MCSD: App Builder
- Microsoft Certified: Azure Developer Associate
- Microsoft Certified: Azure Administrator Associate
- Microsoft Certified: Azure Solutions Architect Expert

Microsoft Fundamental Certifications
- Azure AI Fundamentals
- Azure Fundamentals

Microsoft Office Specialist

◆ Microsoft Word
◆ Microsoft Excel
◆ Microsoft Power Point

Pearson VUE Certified Administrator in 2014, 2015, 2017, 2018, 2019, 2021, 2022, 2023.

ACHIEVEMENTS:

- Participated in State Level Cricket tournament in U-16 category.
- Participated in State level Hand ball tournament in U-16 category.
- Acted as Vice-Captain for GEC faculty Cricket team and stood as Runners in 23rd & 24th Chandu's Cup (State level faculty tournament) organized by JKC College, Guntur (2018).

GUIDED / GUIDANCE PROJECTS:

Innovation Projects:

- **HydroHub** - SIH'2024 Finals
- **AI Based Attendance Monitoring System** - SIH'2022 Finals , YIC-2023 Finals, SRGEC National Level Hackathon 1st Prize.
- **Krishak Direct Marketing** - YIC'2023 Finals
- **Fishery Advisory System** - YIC'2023 Finals
- **Automatic Aerator Operating System** - 1 Lakh grant from AIC ALEAP WE Hub, SRGEC National Level Hackathon 2nd Prize.
- **Lexi-AI: AI based Leagel Advisory System** - SRGEC National Level Hackathon 1st Prize.
- **Autonomous Target Stricking Vehicle** - Patented & KLU Hackathon 1st Prize.
- **Autonomous Pest & Nano Fertilizer Spraying Vehicle** - Applied for Patent
- **Sparsha Rakshak** - Ready for Patent
- **Crop-Sink** - Ready for Patent

M.Tech Projects:

Guided	Under Guidance
5	0

B.Tech Projects:

Guided	Under Guidance
35	6

NUMBER OF WORKSHOPS ORGANIZED: 29

CONFERENCES / SEMINARS / WORKSHOPS ATTENDED: 32

PUBLICATIONS/CONFERENCES:

International/ National Journals	International/ National Conferences
17	20

1. "Multivariate Analysis on Personalized Cancer Data using a Hybrid Classification Model using Voting Classifier", International Journal of Intelligent Systems and Applications in Engineering 11.1 (2023): 354-362. (**Scopus Indexed**)

2. "Deep Neural Network for Image Recognition In Medical Diagnosis", Journal of Pharmaceutical Negative Results 13 (2022).(**Scopus Indexed**)

3. "Comparative Analysis of Machine Learning techniques on Genetic Mutation based Cancer diagnosis data", Journal of Theoretical and Applied Information Technology.E-ISSN 1817-3195 / ISSN 1992-8645, Volume 100, Issue 5, Page No. 1718-1728, 2022 (**Scopus Indexed**).

4. "Performing Uni-variate Analysis on Cancer Gene Mutation Data Using SGD Optimized Logistic Regression", International Journal of Engineering Trends and Technology." Volume 69, Issue 2. 59-67. 10.14445/22315381/IJETT-V69I2P209. 2021(**Scopus Indexed**).

5. "A Novel Method for Accurate Tree Counting in Development Projects Using Canny Gaussian Hysteresis Contour (Cghc) - an Advanced Image Analysing Technology" http://dx.doi.org/10.2139/ssrn.4844682

6. "Machine Learning Algorithms for Classification of Genetic Mutations arose during the cell's rehabilitation to Cancer Tumor", Solid State Technology. ISSN: 0038-111X, Volume 64, Issue 2, 2021. Page No: 2752-2758.

7. "Detection of Diabetic Retinopathy Using Deep Learning", Stochastic Modeling & Applications. ISSN: 0972-3641, Volume 26, Issue 3, Page No. 71-80, 2022 (**UGC-CARE Journal**)

8. "Fake News Detection Using Natural Language Processing", Stochastic Modeling & Applications. ISSN: 0972-3641, Volume 26, Issue 3, Page No. 160-168, 2022 (**UGC-CARE Journal**).

9. "AI Based Smart Capture Displaying the Details of Students who Participated in the Rally", Journal of Information and Computational Science, ISSN: 1548-7741, Volume 10, Issue 5, 2020.

10. "Crop Leaf Disease Prediction", The International journal of analytical and experimental modal analysis, ISSN: 0886-9367, Volume 12, Issue 8, 2020.

11. "A Model in Cloud with Dynamic Path Identifiers for Preventing Distributed DOS Flooding Attacks" International Journal For Innovative Engineering and Management Research, ISSN 2456 – 5083, Volume 7, Issue 7, 2018.

12. "Segmentation of Human Bodies Based on Zero Saliency Detection", in International Journal of Innovative Technology and Research Volume 5, Issue 3, April – May 2017, 6322-6324.

13. "A Novel Approach to Detect Glaucoma in Retinal Fundus Images using Cup-Disk and Rim-Disk Ratio", International Journal for Scientific Research & Development| Vol. 4, Issue 05, September 2016 | ISSN (online): 2321-0613.

14. "A New Effective Subject Extraction for Travel Package Suggestions", International Journal of Science Engineering and Advance Technology, Volume 3, Issue 10, October 2015. Impact Factor: 2.05

15. "An Efficient String-Join Architecture using Map-Reduce approach", in International Journal on Advanced Computer Theory and Engineering (IJACTE) ISSN (Print): 2319-2526, Volume -4, Issue -1, February 2015. Impact Factor: 1.64

16. "Web User Behavior Analysis Using Improved Naïve Bayes Prediction Algorithm", in International Journal of Computer Trends and Technology (IJCTT) – Volume 5, Issue 2 Nov 2013. Impact Factor: 0.569

17. "Mining Association rules for Frequent Pattern and Data Cubing", International Journal of Advances in Soft Computing Technology, ISSN 2229-3515, Volume 1, Issue 2, Dec 2011.

International Conferences: IEEE

1. "Revolutionizing Malaria Diagnosis: A Deep Learning Approach," 2023 International Conference on Sustainable Computing and Smart Systems (ICSCSS), Coimbatore, India, 2023, pp. 63-66, doi: 10.1109/ICSCSS57650.2023.10169586.

2. "Smart Autonomous Voice Control Obstacle Avoiding Robot," 2023 International Conference on Computer Communication and Informatics (ICCCI), Coimbatore, India, 2023, pp. 1-6, doi: 10.1109/ICCCI56745.2023.10128608.

3. "An Automatic Water Flow Management System for Agriculture," 2023 5th International Conference on Smart Systems and Inventive Technology (ICSSIT), Tirunelveli, India, 2023, pp. 455-461, doi: 10.1109/ICSSIT55814.2023.10060953.

4. "X-Ray Image Analysis using Deep Learning Techniques to Identify Pneumonia," 2023 Second International Conference on Augmented Intelligence and Sustainable Systems (ICAISS), Trichy, India, 2023, pp. 674-679, doi: 10.1109/ICAISS58487.2023.10250543.

5. "Medical Insurance Predictive Modelling: An Analysis of Machine Learning Methods," 2024 IEEE International Conference on Interdisciplinary Approaches in Technology and Management for Social Innovation (IATMSI), Gwalior, India, 2024, pp. 1-5, doi: 10.1109/IATMSI60426.2024.10502643.

6. "Optimization of Product Length Prediction: An Ensemble Approach for E-commerce Products," 2024 5th International Conference for Emerging Technology (INCET), Belgaum, India, 2024, pp. 1-5, doi: 10.1109/INCET61516.2024.10593411.

7. "Enhancing Cardiovascular Risk Assessment Through Machine Learning," 2024 IEEE 9th International Conference for Convergence in Technology (I2CT), Pune, India, 2024, pp. 1-5, doi: 10.1109/I2CT61223.2024.10543373.

8. "Design and Implementation of a Chatbot for Automated Legal Assistance using Natural Language Processing and Machine Learning," 2023 Annual International Conference on Emerging Research Areas: International Conference on Intelligent Systems (AICERA/ICIS), Kanjirapally, India, 2023, pp. 1-6, doi: 10.1109/AICERA/ICIS59538.2023.10420298.

9. "Enhancing Breast Cancer Prediction Through SVM-Based Analysis," 2023 Annual International Conference on Emerging Research Areas: International Conference on Intelligent Systems (AICERA/ICIS), Kanjirapally, India, 2023, pp. 1-6, doi: 10.1109/AICERA/ICIS59538.2023.10420106.

10. "Enhanced Convolutional Neural Networks for Breast Cancer Detection," 2024 International Conference on Intelligent Systems for Cybersecurity (ISCS), Gurugram, India, 2024, pp. 1-6, doi: 10.1109/ISCS61804.2024.10581335.

11. "Enhancing Communication Accessibility: A Deep Learning Approach to Gesture Recognition for the Deaf and Mute Community," 2024 4th International Conference on Pervasive Computing and Social Networking (ICPCSN), Salem, India, 2024, pp. 842-849, doi: 10.1109/ICPCSN62568. 2024. 00142.

12. "Enhancing Handwritten Digit Recognition: Insights into CNN and RNN Applications," 2024 8th International Conference on Electronics, Communication and Aerospace Technology (ICECA), Coimbatore, India, 2024, pp. 1338-1344, doi: 10.1109/ICECA63461.2024.10800799.

13. "Machine Learning based Screening for Diabetes Risk Prediction," 2024 3rd International Conference on Automation, Computing and Renewable Systems (ICACRS), Pudukkottai, India, 2024, pp. 1188-1193, doi: 10.1109/ ICACRS62842.2024.10841626.

14. "Prediction of Water Potability Through Voting Classifier," 2024 8th International Conference on Electronics, Communication and Aerospace Technology (ICECA), Coimbatore, India, 2024, pp. 1482-1488, doi: 10.1109/ ICECA63461.2024.10801155.

15. "Flight Delay Prediction using Neural Fusion Network," 2024 3rd International Conference on Automation, Computing and Renewable Systems (ICACRS), Pudukkottai, India, 2024, pp. 920-926, doi: 10.1109/ICACRS62842.2024. 10841526.

16. "Malicious URL Analysis using Machine Learning Algorithm," 2024 8th International Conference on Electronics, Communication and Aerospace Technology (ICECA), Coimbatore, India, 2024, pp. 1160-1167, doi: 10.1109/ ICECA63461.2024.10800903.

International Conferences: Springer

1. "Comparative Analysis for Loan Approval Prediction System Using Machine Learning Algorithms" Proceedings of Fifth International Conference on Computer and Communication Technologies. IC3T 2023. Lecture Notes in Networks and Systems, vol 897. Springer, Singapore. https://doi.org/10.1007/ 978-981-99-9704-6_18.

2. "Image Enhancement Using Optimized Generative Adversarial Networks" Innovations and Advances in Cognitive Systems. ICIACS 2024. Information Systems Engineering and Management, vol 15. Springer, Cham. https://doi. org/10.1007/978-3-031-69197-3_5.

3. "Deep Learning-Based MRI Analysis for Early Brain Tumor Detection" Innovations in Cybersecurity and Data Science. ICICDS 2024. Algorithms for Intelligent Systems. Springer, Singapore. https://doi.org/10.1007/978-981-97-5791-6_22.

4. "Comparative Examination of Credit Card Fraud Detection Using Machine Learning Algorithms" Evolutionary Artificial Intelligence. ICEASSM 2017. Algorithms for Intelligent Systems. Springer, Singapore. https://doi.org/ 10.1007/978-981-99-8438-1_17.

Patents Published

1. "Autonomous Target Striking Vehicle" Indian Patent Application Publication, Application No.202441068604 A, Publication Date : 20/09/2024.

2. "An AI-Based System for Alerting Aircrafts and Method of Operating the Same" Indian Patent Application Publication, Application No.202441013817 A, Publication Date : 08/03/2024.

3. "AI Based Driver Drowsiness Detecting Device" UK Patent Application Publication, Design No. 6304504, Publication Date: 25/09/2023.

Books Published

1. "**Design Thinking"** Evincepub Publishing; First Edition (1/11/2024) with ISBN: 978-9363555938.

Book Chapters Published

1. **"Detection of Blackhole Attack Based on DSN and PDR In Manets"** Futuristic Trends in Network & Communication Technologies ISBN:978-81-959356-1-1 Date: 01-11-2022

Membership In Professional Bodies:

1. Member of Computer Society of India (CSI)

2. Member of Institution of Engineers (India)

PERSONAL DETAILS:

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DECLARATION:

I hereby declare that the above information given by me is true.

Dr. ASHOK REDDY KANDULA