

Dr D.DURGA PRASAD
Ph.D

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CAREER OBJECTIVE:

Challenging and hardworking personality to enable my analytical and research oriented skills can be put for the best of the organizational I do work for.

CURRICULAR EXPERIENCE:

- Industrial and Academic Coordinator – Getting MOU’s and Provide training on latest technologies.
- Single Point of Contact (SPOC) for South Central Railways & APPSDC Programs & Projects.
- Single Point of Contact (SPOC) for Internships.
- Mentor for APSCHE & British Council under APSCHE Skills Project.
- Program Coordinator for Manipal Pro Learn, EduNXT Program and training activities.
- Regional Editor for International Journal of Computer Applications in Engineering, Technology and Sciences (IJ-CA-ETS), Sangli, Maharashtra.
- Coordinator, Aagama-18, A National Level Technical & Paper Presentation Aagama -18.
- Coordinator, Talentia & SEMIC, A Computer Student’s Symposium organized by MIC College of Technology
- Paper setter for various autonomous colleges.

ACADEMIC EXPERIENCE:

- Serving as Professor in the Dept of CSE at PSCMR College of Engineering and Technology, Vijayawada. (Aug'18 - tilldate)
- Served as Professor in the Dept of CSE at DVR & Dr HS MIC College of Technology, Kanchikacharla. (Apr'18- Aug'18)
- Served as Associate Professor in the Dept of CSE at DVR & Dr HS MIC College of Technology, Kanchikacharla and ratified by JNTUK, Kakinada for a period of 11 years 5 months. (Nov'06- Apr'18)
- Served as Assistant Professor in the Dept of CSE at P.V.P Siddhartha Institute of Technology, Vijayawada for a period of 1.6 years. (Jul'2005- Nov'06)
- Served as Assistant Professor in the Dept of CSE at Sri Sarathi Institute of Technology, NUZVID for a period of 1 year (Aug'2004-Jul'05)
- Served as Lecturer in the Department of Computer Studies at Mahatma Gandhi College (PG Courses), GUNTUR for a period of 3 years (Jul'2001- Jul'2004).
- Served as Trainee Programmer at M/s The Vysya Bank Limited, Bangalore for a period of 1.5 years (Jan'2000- May'2001)

QUALIFICATION:

- **Ph.D (Computer Science and Engineering)** from Rayalseema University, Kurnool, Andhra Pradesh.
- Placed First division - **M.Tech** from JNTUK, Kakinada.
- Placed in First division for Master of Computer Application (MCA) from Nagarjuna University.

RESEARCH OBJECTIVE:

Title: “An Improved Approaches and Algorithms for Learning from Skewed Data Distribution using Within-Class Imbalance”.

Area of Research: Data Mining

Supervisor: Dr K. Nageswara Rao, Principal,

PSCMR College of Engineering and Technology, Vijayawada.

Description:

Class Imbalance Learning (CIL) is one of the issues which degrade the performance of any traditional classifier. To address these issues of class imbalance problem the present work proposed various novel and effective CIL algorithms.

In this research work, we proposed several novel algorithms dubbed as With In class Minority Oversampling Technique (WIMOTE), With In class Majority Under Sampling (WIMUS) and With In class Diverse Sampling (WIDS) algorithms for gaining from skewed information. These calculations give an easier and quicker option by utilizing oversampling and under sampling strategies.

We lead tests utilizing fifteen UCI informational collections from different application spaces utilizing SMOTE (Synthetic Minority Oversampling Technique) algorithm for correlation on a few assessment measurements. Test comes about demonstrate that our proposed strategies have higher Accuracy, ARC Curve (Area under the Curve), ROC (Receiver Operating characteristic curve) precision values than many existing learning techniques. In total three novel algorithms are proposed with experimental validations are presented as the contributions of this work.

SUBJECTS TAUGHT:**UG Level:**

Software Engineering	Cloud Computing
Interactive Computer Graphics / Computer Graphics	Data ware housing and Data Mining
Cyber Laws	e-Commerce
Software Testing Methodologies	Design of Analysis and Algorithms
Information Retrieval Systems	Data Base Management Systems
C Programming	Design of Analysis and Algorithms

PG Level:

Data Base Management Systems	Data ware housing and Data Mining
Object Oriented Analysis and Design	Management Information Systems
Data Base Management Systems	Software Project Management
e-Commerce	Security Databases
COBOL	Information Retrieval Systems
Enterprise Resource Planning	

SOFTWARE BACKGROUND:

Data Mining Tools	Weka 6.0
Modeling Tools	Erwin, E-Draw, Rational Rose
Operating System	Windows XP/7, UNIX, Linux
Programming Languages	COBOL, PL/SQL, C
GUI Tools	Developer 2000 - Forms 4.5/5.0, Reports 2.5/3.0
Databases	Oracle 7.X/8.0, Ms-Access
Packages	Ms-Office, Lotus Smart Suit
Testing Tools	Win Runner, Load Runner
Business Intelligence Tools	Cognos, Business Objects, Oracle Discoverer
Middleware Tools	Informatica, Oracle Warehouse Builder

PAPERS PRESENTED / SEMINARS INVITED/ATTENDED:

- Paper published on “Applications, Early Successes & Challenges of Big Data in Modern Healthcare Management”, at TEST 2020 ,Engineering and Management, Volume - 83, ISSN : 0193-4120 Page No:11107-11121
- Third IEEE International conference on Electronic, computer and communication Technologies (IEEE ICECCT - 2019), volume-3, Page No:1590-1594 with titled " Imbalanced Data Using with-In Class Majority Under Sampling Approach".
- International Journal of Research in Computer Science & Engineering, Volume - 6, Issue - 4, Page No: 4290-4296, [http:// www.ijrcse.com/Login.aspx?ArticleId=IJRCSE/V6/4-2203](http://www.ijrcse.com/Login.aspx?ArticleId=IJRCSE/V6/4-2203) &MenuName= Volume-6, % 20 Issue-4, ISSN: 2321-5585 (Online) with titled "A Survey on Applicability of Decision Trees on Class Imbalance Learning"
- International Journal of Latest Trends in Engineering and Technology", Vol(7) Issue(4), pp.156-164 DOI: [http:// dx .doi.org/10.21172/1.74.020](http://dx.doi.org/10.21172/1.74.020) e-ISSN:2278-621X with titled “An Improved Approach on Class Imbalance Minority Oversampling Technique"
- International Journal of New Innovations in Engineering and Technology-IJNIET, Volume(7) Issue(3) - April 2017, <http://www.ijniet.org/wp-content/uploads/2017/04/7305.pdf>, ISSN: 2319-6319 with titled " WIDS Approach for Class Imbalance Using Hybrid Sampling"
- International Conference on Contemporary Engineering and Technology 2017 with titled “A novel technique on imbalanced data using Within-class Majority Under sampling approach”
- International Journal of Information Technology and Computer Science(IJITCS) with titled as “Approach on Class Imbalance using Within Class Diverse Sampling (WIDS) Technique"
- Paper published on “Systematic Management and Optimal Monitoring of Ground Water Resources for Sustainability using Spatial Mining” at International Journal of Computer Applications in Engineering, Technology and Sciences (IJ-CA-ETS)
- Paper Communicated on “ Interaction of AI with Databases” for International Conference on Artificial Intelligence 07 (IJCAI-07).
- Paper published on “Data Mining Applied to Agent Based Simulation Model” at National Conference on Knowledge Management & Datamining at PSNA College of Engg., & Technology, Dindigul.(CSI- Tirchy Chapter). (2005-06)

FACULTY DEVELOPMENT PROGRAMS ATTENDED:

- Attended a two week AICTE sponsored Faculty Development Program on "Soft Computing Techniques and its Applications" at Gudlavalleru Engineering College. (27 Jan - 8 Feb 2020)

- Attended awareness workshop on "Smart India Hackathon 2019" organized by AICTE and MHRD conducted at SRKR Engineering College, Bhimavaram.(10 Jan 2019)
- Attended a one day workshop on "Examination Reforms" organized by AICTE, South Central Region, Hyderabad. (14 Dec 2018)
- Attended AICTE approved FDP (FDP201x) on "Pedagogy for Online and Blended Teaching-Learning Process" conducted by IIT Bombay. (30 Oct - 13 Dec 2018)
- Attended AICTE approved FDP (FDP101x) on "Foundation Program in ICT for Education" conducted by IIT Bombay. (13 Sep - 18 Oct 2018)
- Attended DST Sponsored a one week Faculty Development Program on " Data Science and Big Data Analytics" at MIC College of Technology (13-18 Nov'17)
- Attended The Third International Conference on Computer & Communication Technologies (IC3T - 2016) at MIC College of Technology (05-06 Nov'16).
- Attended DST Sponsored a two day Program on “ Soft computing Techniques for engineering applications” at MIC College of Technology (26-27 Feb’16)
- Attended ISTE & DST Sponsored a two day Program on “Network Analysis using NS3 Tool” at MIC College of Technology (27-28 Nov’15)
- Attended a program on “Data Base Management Systems” organized by IITB under the National Mission of Education through ICT. (21st -31st , May’13)
- Attended a program on “Effective e-Teaching and Learning” organized by IIITB, Bangalore. (Nov’10- Mar’11)
- Attended a 2weeks program on “Recent Trends in Data Mining” organized by NITW, Warangal.(4-18 May’09)
- Attended Work shop and hands on training on “Retional Rose” at IBM (off campus), Banjara hills, Hyderabad.(5days). (2004-05)
- Attended a Three day Work shop on “Software Project Management”, Gudlavalleu Engineering College, Gudivada. (2005-06)
- Attended a Two day Work shop on “ Dataware Housing and Mining”, PVP Siddhartha Institute of Technology, Vijaywada.(2005-06)
- One day Training Program on “Leadership and Personal Quality Initiatives” conducted by the Training & Placement Cell in association with IIQ Systems Pvt. Ltd., Bangalore. One day Training Program on “Leadership and Personal Quality Initiatives” conducted by the Training & Placement Cell in association with IIQ Systems Pvt. Ltd., Bangalore.(2005-06)

MEMBER:

- Life Member – ISTE, IAENG, CSTA,IEI,IFERP
- Peer reviewer for ICCIDE'2018, INTERNATIONAL CONFERENCE ON COMPUTATIONAL INTELLIGENCE & DATA ENGINEERING 2018.
- Member - Oracle Academy

- Working as a Editorial Board Member for International Journal of Emerging Technologies & Applications in Engineering Technology&Science (IJ-ETA-ETS)
- Working as a Regional Coordinator for International Journal of Computer Applications in Engineering, Technology and Sciences (IJ-CA-ETS)

BOOKS PUBLISHED:

- Composed Course Content material for IGNOU on “Advanced Certificate for Windows Security”
- Composed Course Content for Apollo Publishers on e-Business.

Ph.D Thesis adjudicated

"Design and development of novel algorithms for missing data imputation using HOEFEDING's Bound" by Ms S. Priya under the supervision of Dr Anthony Selvadoss, Bharatiyar University, Coimbatore, Jan 2020

PERSONAL DETAILS:

Date of Birth : 16th July 1976
Father's Name : D.Satyanarayana
Marital Status : Married
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Gandhinagar, VIJAYAWADA – 520003. (AP)



(Dr D. DURGA PRASAD)