

Dr.R. DHANALAKSHMI, M.E., Ph.D.,
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Career Overview

Dedicated and passionate educator with over 15 years of experience teaching diverse student populations in reputed Engineering institutions. Skilled in creating engaging lesson plans that cater to various learning styles, fostering a positive classroom environment, and utilizing technology to enhance learning outcomes. Strong background in curriculum development, student assessment, and classroom management. Committed to inspiring a love of learning and supporting students' academic and personal growth. Recognized for building strong relationships with students, parents, and colleagues.

Employment Record

1. June 2003 to April 2005 worked in Sathyabama Institute of Science and Technology, Chennai, as Assistant Professor in Department of Computer Science and Engineering.
2. July 2005 to April 2006 in MNM Jain engineering college, Chennai, as Assistant Professor in Department of Computer Science and Engineering.
3. July 2009 to November 2020 worked in Jeppiaar engineering college, Chennai, as Assistant Professor in Department of Computer Science and Engineering.
4. Currently not working as guest faculty at BITS Pilani, Hyderabad, associated with WIPRO Technologies from 2022.

Qualifications

1. Ph.D... (Computer Science & Engineering)

Completed Ph.D. in Computer Science and Engineering at Sathyabama University, Chennai, in August 2022. Research Area is Data Mining, with Title as “CLUSTERING AND ACTIVITY SELECTION FOR TRAINING SPECIAL CHILDREN USING UTILITY PATTERN MINING”.

2. M.E. (Computer Science & Engineering)

Completed M.E. in Computer Science and Engineering in April 2005 at Sathyabama Deemed University – Chennai, with 67.6% .

3. B.E.

Completed B.E. in April 2003 at St. Joseph's College of Engineering – Chennai, under Madras university, with 68.7% .

4. HSC.

Completed HSC in March 1999 at VNUP Kaleeswari Higher Secondary School-Vanniampatti,Srivilliputtur- Tamil Nadu State Board, with 87.41%.

5. SSLC.

Completed SSLC in March 1997 at VNUP Kaleeswari Higher Secondary School-Vanniampatti,Srivilliputtur- Tamil Nadu State Board, with 88.2%.

Areas of Specialization/ Interest

1. Data Mining
2. Machine learning.
3. Computer Architecture.
4. Data science.
5. Software Architectures.
6. Mobile Computing.
7. Artificial Intelligence.
8. Internet of Things.
9. Programming Technologies.
10. Networking.
11. Big Data.
12. Cloud computing.
13. Database Management Systems.

Publications

International Journal

1. Dhanalakshmi, R, Muthukumar, B and AroulCanessane, R, “Analysis of Special Children Education Using Data Mining Approach”, International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems, Vol. 30(1),pp. 125-14,2022 (SCI Indexed,IF:1.21)
2. Dhanalakshmi, R., Muthukumar , B.,” Improvement assessment method for special kids by observing the social and behavioural activities using data mining techniques “Int. J. Business Intelligence and Data Mining, Vol. 19, No. 4,443-455, 2021((scopus,IF:0.61)
3. Dhanalakshmi, R., Muthukumar, B., Aroulcanessane, R.,"An esteemed maximum utility pattern mining: special children assessment analysis,Progress in Artificial Intelligence this link is disabled, 2021.(ESCI,IF:2.25).
4. R. Aroul Canessane, R. Dhanalakshmi, Anu, V.M.,” Implementation of tensor flow for real-time object detection”, International Journal of Recent Technology and Engineering,vol.8, no. 2s11, pp. 2342-2345, 2019. (scopus,IF:0.68)
5. B.Muthukumar, R. Dhanalakshmi, R. Aroul canessane ,“Data Recovery and Reconstruction Using Business Intelligence Methodology Erasure Code Implementation Using Cloud Computing “,International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering,2017.vol6,3,77-82.(Scopus,IF:44)
6. Dhanalakshmi, R., Muthukumar, B., “A High Utility Sequential Pattern Mining in Sequence Datasets”, ARPJ Journal of Engineering and Applied Sciences,2016,vol11,13,8295-8299(Scopus Indexed.IF:0.57)
7. Aroul canessane R, Vanitha Renganathan, R. Dhanalakshmi, "Storage optimization of VOD systems by system coding comparable substance dissemination and narrow casting", ARPJ Journal of Engineering and Applied Sciences, June –July 2015, Vol.10, No.12, pp.1819-6608. (Scopus Indexed,IF:0.57)
8. R. Rathna, R. Dhanalakshmi,T. Sasipraba ," Centralised Against Distributed Medium Access Control Scheduling for Environmental Monitoring Sensors”, IET Wireless Sensor Systems,2015,vol1,271-276(Scopus Indexed,IF:2.51).
9. Aroul Canessane R, Sandhya R. Dhanalakshmi, “Recognizing Hand Gesture Inter face for Visually impaired”, International Journal of Applied Engineering Research, Feb- Mar 2015, Vol.9, No.24, pp.0973-4562.(Scopus Indexed,IF:0.18)

National Journal

1. R.Dhanalakshmi ,M.Pavithra,'High utility sequential pattern mining for developmental training of special kids", Journal of Applied Science and Computations,2019,1,1-9(UGC)

International Conference

1. Dhanalakshmi, R.," Development of medical mobile app for disease prediction using hybrid mobile application frameworks and machine learning. " Proceedings of Sixth International Conference on Science, Technology, Engineering and Mathematics, ICONSTEM 2020, Ideal International E- Publication
2. R. Dhanalakshmi, B. Muthukumar.," Utility Pattern Mining Using Correlated Relationship Among Items", International Virtual Conference on Computational Intelligence and Applications -2020,1,82-89,2020)
3. R. Aroul Canessane, Dhanalakshmi, R., Pavithra, B., Sasikanth, B., Sandeep, C., "HUSP Mining Techniques to Detect Most Weighted Disease and Most Affected Diseases for the Healthcare Industry", ICONSTEM 2019, IEEE Explorer, 2019. (scopus).
4. R. Aroul Canessane, R.A., Dhanalakshmi, R., Muthukumar, B.,Jyothi, B., Dhamodaran, S.," Diabetes to Heart Disease: A Survey ",, ICONSTEM 2019, IEEE Explorer, 2019. (scopus).
5. R. Dhanalakshmi, B. Muthukumar. ,"An Efficient Maximum Utility Pattern Mining With Lossless Representation Of Data Sets – A Review",Second International Conference on Science Technology Engineering and Management,2016,1,164-167.
6. Murari DevaKannan Kamalesh , Hema Prasanna K , B.Bharthi,R. Dhanalakshmi, R. Aroul Canessane," Predicting the risk of diabetesmellitus to subpopulation using association rule mining " International Conference on Soft Computing Systems, 2015,volume1 ,55-59, Springer series. (scopus)

Achievements

1. Produced 100% result in Computer Programming for the batch 2003-7(II semester of BE (CSE)).
2. Produced 100% result in System Software for the batch 2004-8(IV semester of BE (CSE)).
3. Produced 100% result in Advanced Computer Architecture for the batch 2018-20(II semester of ME(CSE))

Workshops & FDP Attended

1. FDP On Advances in Computer Architecture, SSN College Of Engineering, Chennai
2. FDP On Software Architecture, SSN College Of Engineering, Chennai.
3. FDP On Art Of Investing In Stock Markets, Sathyabama University, Chennai.
4. Faculty Development Workshop in Software Architecture Design Patterns and Case Tools, Cognizant Technologies, Chennai.
5. National Level Workshop on Compiler Design, Jeppiaar Engineering College, Chennai.
6. National Level Workshop on Techniques and Tools In Data Mining, Sathyabama University, Chennai.
7. Workshop On Adobe Photoshop, School Of Computing, Sathyabama University, Chennai.
8. Workshop on Data Communication Network, St. Josephs College Of Engineering, Chennai.
9. Fdp On Recent Trends in IOT, Jeppiaar Engineering College, Chennai.
10. Attended National Work Shop On Applications Of Logic, Dept Of Mathematics, Sathyabama University.
11. Workshop On "Big Data" Conducted By St,Joseph's .College of Engineering, Chennai.
12. FDP On IoT,KCG College Of Engineering, Chennai
13. Workshop On "Network Security" M.N.M.Jain Engg.College, Chennai.
14. Workshop On "Academic paper writing techniques" , Mizpah ventures LLP & Kenilworth Global consulting.
15. Workshop On Introduction to big data analytics, Jerusalem college of engineering.
16. Workshop On Geographical Information Systems, SRM Institute Of Science And Technology
17. FDP on" Integration of IoT and Cloud Computing in Smart Cities" Pondicherry Engineering College, Pondicherry.

NPTEL Courses

1. Introduction to Programming in C, July to September 2019

Project

Project Title: Student Information Database System

Agency : Maithree Special School, Chennai

Amount : No Fund

Period : Nov 2015- May 2016

Role : Co Investigator

Patent

Title : A HIGH UTILITY SEQUENTIAL PATTERN OF ADHD MINING IN SEQUENCE DATASETS

Application No : 43778

Status : Applied

Subjects Handled

1. Cloud computing.
2. Database Management system.
3. DataWare Housing and Mining.
4. Object Oriented Analysis and Design.
5. Software Engineering.
6. Data Structures and Algorithm.
7. Human Computer Interaction
8. Computer Architecture
9. Mobile Computing
10. Advanced Computer Architecture
11. Python Programming
12. Programming in C++
13. Programming in C
14. Resource management Techniques
15. Total Quality Management

Labs Handled

1. Object oriented system Engineering Lab
2. Networking Lab.
3. Case Tools Lab.
4. Data structures using Java & C++ Lab.
5. Internet Programming Lab.
6. C++ Programming Lab
7. C Programming Lab.
8. Python
9. Mobile Computing Lab

Software Exposure

OS – UNIX, Dos, Windows, Linux. RDBMS – Oracle, MySql

Languages –C++, C, Python, Python GUI -Visual Basic 6

MATLAB, NS2

Projects Done

1. Network Downloader during the final semester of ME (CSE).
2. Controlling External Devices using PC during the final semester of BE(CSE).

Department Activities

1. NAAC Coordinator
2. NBA Criteria Incharge
3. Cultural ,Symposium in charge.

Events Organized

1. Five Days Faculty Development Program on Machine Learning and Cloud Infrastructure In Association with INCEPTEZ TECHNOLOGIES PVT LTD.. CHENNAI from 6.7.20 To 10.7.20

Personal Details:

Date of Birth : June 4, 1982
Marital Status : Married
Languages Known : English Tamil and Telugu