

BIODATA

NAME & QUALIFICATION : Rethinavalli Sowrirajan
DESIGNATION : Assistant professor
DEPARTMENT NAME : Computer Science
Email id : rethinasowri@gmail.com
Area of Specialization : Computer networks



RESEARCH INTEREST

Data mining and knowledge discovery with a focus on massive data sets. Research is mainly concerned with the development of new methodologies and advanced algorithms. Focused on data mining methods, techniques, algorithms design and analysis, statistics, data visualization, machine learning and artificial intelligence and the development of new automatic tools for finding implicit patterns.

TECHNICAL EXPERTISE

Web Technologies : VB.Net, ASP.Net, HTML, XML
Programming Languages : Visual Basic 6.0, C, C++, Core Java, Advanced
JavaRDBMS : SQL Server 2000, Oracle 9.x, MS Access
Operating Systems : Windows 2000, Windows 98, Windows 95, Linux,
UNIX Packages : FoxPro, MS Office, Tally

EXECUTIVE SUMAMRY

Have experience of 20 years in teaching for Under Graduates and Post Graduates in Computer Science and assisting other faculties in their duties.

Have experience of 10 years in research in data mining and network security.

PROFESSIONAL EXPERIENCE

Assistant Professor, Department of Computer Science, Shrimathi Indira Gandhi College, Tiruchirappali, India., (August 2004 - Present)

Subjects Taught

- Data mining
- Network Security
- Communication Networks
- Software Engineering
- Multimedia and its applications
- Artificial Intelligence and Expert Systems
- Human Computer Interaction

Lecturer, Computer Science Department at Shrimathi Indira Gandhi College, Tiruchirappalli, India., (August 2000 - July 2004)

- Programming Languages, Operating Systems, Unix, Web Technology
- Data Structures and Algorithms
- Data Base Systems, Grid Computing
- Digital Electronics, Parallel processing, Graphics

EDUCATIONAL BACKGROUND:

- **Ph.D** in **COMPUTER SCIENCE**, Shrimathi Indira Gandhi College, Bharathidasan University, Tiruchirappalli, India (2012–2018)
- **M.Phil** in **COMPUTER SCIENCE**, Bharathidasan University, Tiruchirappalli, India (April 2004-2006)
- **M.C.A** in **COMPUTER SCIENCE**, Shrimathi Indira Gandhi College, Bharathidasan University, Tiruchirappalli, India, (1997-2000)
- **B.Sc** in **PHYSICS**, Shrimathi Indira Gandhi College, Bharathidasan University, Tiruchirappalli, India (1994-1997)

PUBLICATIONS IN INTERNATIONAL JOURNAL:

1. **S. Rethinavalli**, Dr. M. Manimekalai, **A Novel Hybrid Framework for Risk Severity of Polycystic Ovarian Syndrome**, International Journal of Control Theory and Applications (IJCTA), 9(27), pp. 19-27, 2016.
2. **S. Rethinavalli**, Dr. M. Manimekalai, **A Hypothesis Analysis on the Proposed Methodology for Prediction of Polycystic Ovarian Syndrome**, International Journal of Computer Science & Engineering Technology (IJCSET), 6(11), pp.396-400, November 2016.
3. Dr. K. Meena, Dr. M. Manimekalai, **S. Rethinavalli**, **Implementing Neural Fuzzy Rough Set and Artificial Neural Network for Predicting PCOS**, International Journal on Recent and Innovation Trends in Computing and Communication [IJRITCC], 3(12), pp.6722-6727, December 2015.
4. Dr. K. Meena, Dr. M. Manimekalai, **S. Rethinavalli**, **Correlation of Artificial Neural Network Classification and NFRS Attribute Filtering Algorithm for PCOS Data**, International Journal of Research in Engineering and Technology (IJRET), 4(3), pp.519-524, March 2015.
5. Dr. K. Meena, Dr. M. Manimekalai, **S. Rethinavalli**, **“A Novel Framework for Filtering the PCOS Attributes using Data mining Techniques”**, International Journal of Engineering Research & Technology (IJERT), Vol. 4 Issue 01, January-2015, pp. 702-706. (Indexing:Google Scholar, Research Gate)

6. Dr. K. Meena, Dr. M. Manimekalai, **S. Rethinavalli, A Literature Review on Polycystic Ovarian Syndrome and Data Mining Techniques**, International Journal of Advanced Research in Computer Science and Software Engineering (IJARCSSE), 4(12), pp.780-785, December 2014.
7. Dr. K. Meena, Dr. M. Manimekalai, **S. Rethinavalli, An Unsupervised Technique for Statistical Data Analysis Using Data Mining**, International Journal of Information Sciences and Application (IJISA), 5(1), pp. 11-20, 2013.

PARER PRESENTED IN INTERNATIONAL CONFERENCES

1. Presented and Published a paper “**Framework for Detection of Sybil Attacks in mobile adhoc networks**”, in International Technology, Entrepreneurship, Humanities and Sustainable value chain in a challenging environment organized by Gulf American University and Primax publication's, **Dubai**, ISSN No: 978-81-941390-4-1, March 2020.
2. Presented and Published a paper **E-Commerce -A Case Study on PCOS System** in International Conference organized by Primax Foundation and AAarya Business College Singapore, **Singapore 409957**, ISSN No: 2394-2386, 4th June 2019

PARER PRESENTED IN NATIONAL CONFERENCES

1. Presented a paper in **International Conference on Computing Communication and Information Science CCCIS'16**, Bishop Heber College, Tiruchirappalli, Tamilnadu, India, July 2016,
2. Presented a paper on **Heart Disease Prediction System using Hybrid Models of Data Mining Techniques** at Shrimati Indira Gandhi College, Tiruchirappalli. India, on 19th September 2015.
3. Presented a paper on **Recent Trends in Human Computer Interaction** in Computer Society of India Tiruchirappalli Chapter at Shrimati Indira Gandhi College, Tiruchirappalli. India, on 28th February 2015.
4. Presented a paper National Seminar on **Cloud Computing**, at Bharathidasan University Technology Park, Tiruchirappalli. India, on 26th September 2012.

WORKSHOP / SEMINAR PARTICIPATION

1. Certificate of Participation in session 2 of skycampus-webnar on the theme **leading in a VUCA world**, ICT academy skycampus on Apr 20 -24, 2020
2. Organised and Co-ordinated State Level Seminar on **Current Trends of in Research Field of Computer Science** at Shrimati Indira Gandhi College, Tiruchirappalli. India, on Oct 13-14, 2007.
3. Organised and Co-ordinated State Level Seminar on **Computer Oriented**

Mathematical Techniques 2007 at Shrimati Indira Gandhi College, Tiruchirappalli, India, on Aug 10-11, 2007.

4. Organised and Co-ordinated National Seminar on **Emerging Trends of Mathematical Techniques and Their Applications in Computer Science** at Shrimati Indira Gandhi College, Tiruchirappalli, India, on Feb 23 & 24, 2007.
5. Organised and Co-ordinated State Level Seminar on **current Trends of in Research Field of Computer Science** at Shrimati Indira Gandhi College, Trichy, India, on Oct 13-14, 2006.
6. Attended state level conference on **currents trends in Research field of computer science** organized by the research department of computer science, Shrimati Indira Gandhi College, Tiruchirappalli, and Computer Society of India.
7. Attended University Grant Commission sponsored seminar on **Recent Trends in Information Technology** Organized by the PG research Department of Computer Science Gobi Arts and Science College, India.

FACULTY DEVELOPMENT PROGRAM

- Faculty development program in **‘Building Emotional Intelligence and Resilience Case Method of Experiential Teaching and Learning**, Mahatma Gandhi National Council of Rural Education (MHRD, Govt of India), May 8-14, 2021

PROFESSIONAL PROFILE

1. Worked as a **National Service Scheme Programme Officer** for our college from 2004 to 2006, attended state level camps, and involved in top to bottom level social activities.
2. Worked as a **Youth Red Cross Programme Officer** for our college from 2002 to 2004.
3. Examiner of Under graduate practical and theory examinations of Bharathidasan University, Tiruchirappalli, India.
4. Obtained A Grade in University Grant Commission granted Orientation certificate in teaching.
5. An effective communicator with comprehensive problem-solving abilities, flair for innovation, technology adaptation and willingness to learn.
6. Member of various committees in the college like Students council, Students Admission committee, Placement cell and other administration work.
7. Question Paper Setter and Valuator in Bharathidasan, Bharathiyar, Periyar, Alagappa and Manonmaniam Sundaranar Universities in India.
8. A Team Member in the Software Contest and guiding many socially relevant

projects of our college.

9. Orientation Certificate in Teaching with Grade- A“, University Grant Commission, Academic Staff College, Bharathidasan University, Tiruchirappalli, India, November 2003.
10. Orientation Certificate in National Service Scheme organized, Bharathidasan University, Tiruchirappalli, 2005.
11. Orientation Certificate in Young Red Cross, Bharathidasan University, Tiruchirappalli, India, 2003.

STRENGTHS

1. Achievement oriented with an ability to manage changes with ease
2. Strong interactive, learning and organizing skills
3. Ability to manage stress, time and people effectively
4. Analytical and problem solving
5. Goal oriented, Positive attitude, Initiative
6. Flexibility and adaptability
7. Creativity, quick learner, critical thinking