

Dr. RETHINAVALLI SOWRIRAJAN

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EXECUTIVE SUMMARY

- Have experience of 18 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.

EXPERIENCE:

- Working as an **ASSISTANT PROFESSOR** in Computer Science Department at Shrimathi Indira Gandhi College, Tiruchirappali, India., from Aug 2000 to till Date.

EDUCATIONAL BACKGROUND:

- DOCTOR OF PHILOSOPHY (**Ph.D.**) in **COMPUTER SCIENCE** (Oct'2012 –Sep'2018) in Bharathidasan University, Tiruchirappalli, India.
- MASTER OF PHILOSOPHY (**M.Phil.**) (2004-2006) in **COMPUTER SCIENCE** at Shrimathi Indira Gandhi College (Bharathidasan University), Tiruchirappalli, India.
- MASTER OF COMPUTER APPLICATIONS (**M.C.A.**) (1997-2000) in **COMPUTER SCIENCE** at Shrimathi Indira Gandhi College (Bharathidasan University), Tiruchirappalli, India.
- BACHELOR OF SCIENCE (**B.Sc.**) in **PHYSICS** (1994-1997) at Holy Cross College (Bharathidasan University), Tiruchirappalli, India.

RESEARCH INTEREST

- My main research interests are in the field of 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.

SUBJECTS TAUGHT:

- Data mining
- Network Security
- Communication Networks
- Programming Languages, Operating Systems, Unix, Web Technology
- Data Structures and Algorithms
- Software Engineering
- Multimedia and its applications
- Data Base Systems, Grid Computing
- Digital Electronics, Parallel processing, Graphics
- Artificial Intelligence and Expert Systems
- Human Computer Interaction

PUBLICATIONS IN INTERNATIONAL JOURNAL.

- **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.
- **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.
- **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.
- **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.
- **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.
- **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.

PROFESSIONAL PROFILE:

- 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.
- Worked as a **Youth Red Cross Programme Officer** for our college from 2002 to 2004.
- Examiner of under graduate practical and theory examinations of Bharathidasan University, Tiruchirappalli, India.
- Obtained “A” Grade in University Grant Commission granted Orientation certificate in teaching.
- An effective communicator with comprehensive problem-solving abilities, flair for innovation, technology adaptation and willingness to learn.
- Member of various committees in the college like Students council, Students Admission committee, Placement cell and other administration work.
- Question Paper Setter and Valuator in Bharathidasan, Bharathiyar, Periyar, Alagappa and Manonmaniam Sundaranar Universities in India.
- A Team Member in the Software Contest and guiding many socially relevant projects of our college.

TECHNICAL EXPERTISE

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

PROFESSIONAL CERTIFICATIONS

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

PARER PRESENTED IN INTERNATIONAL AND NATIONAL CONFERENCES:

- Presented a paper in **“International Conference on Computing Communication and Information Science” CCCIS'16**, July 2016, Bishop Heber College, Tiruchirappalli, Tamilnadu, India.
- Presented a paper on **“Heart Disease Prediction System using Hybrid Models of Data Mining Techniques”** at Shrimati Indira Gandhi College, Tiruchirappalli. India, on September 2015.
- 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 February 2015.
- Presented a paper National Seminar on **“Cloud Computing”**, at Bharathidasan University Technology Park, Tiruchirappalli. India, on September 2012.
- Presented a paper on **“pcos in E-com-A case study”** in Singapore.

WORKSHOP / SEMINAR PARTICIPATION

- 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.
- 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.
- 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.
- Organised and Co-ordinated State Level Seminar on **“current Trends of in Research Field of Computer Science”** at Shrimati IndiraGandhi College, Trichy, India, on Oct 13-14, 2006.
- 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.
- 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.
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A handwritten signature in blue ink, appearing to read 'Rethinavalli Sowrirajan', is written on a light blue horizontal background strip.

(RETHINAVALLI SOWRIRAJAN)