

## PROFILE



Name : Dr. J. MELBA ROSALIND

Educational qualification : B.Sc., MCA., M.Phil., SET, Ph.D.

Work experience till date : 18+ years

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Current Designation : Assistant Professor, Department of Computer Science,  
Lady Doak College, Madurai

Area of Specialization : Machine Learning, Natural Language Processing

### ***Publications:***

<i>Title of the Article</i>	<i>Name of the Journal</i>	<i>Volume</i>	<i>Publication</i>	<i>Year of Publication</i>
<i>Ensemble Model for Classifying Sentiments of Online Course Reviews using blended Feature Selection methods</i>	<i>JOURNAL OF EDUCATION: RABINDRABHARATI UNIVERSITY</i>	Vol: XXIII, No. : 11, 2021	0972-7175	Nov 2021
<i>Detecting Polarity Score Of The Course Feedback Text Reviews Using Customized Sentiment Lexicon</i>	<i>Turkish Journal of Computer and Mathematics Education</i>	Vol.12 No. 7 (2021),	2506-2515	July 2021
<i>Sentiment Classification of WhatsApp Data Context and Topic Analysis Using R Tool</i>	<i>JETIR-Journal of Emerging Technologies and Innovative Research</i>	May 5162 Volume 6, Issue 5	ISSN-23492019,	May 2019

<i>Implications of Machine Learning Tools in Educational Big data Analytics</i>	<i>JASC - Journal of Applied Science and Computations</i>	Volume 5, Issue 6	ISSN NO: 0076-5131	June 2018
<i>Sentiment Analysis Techniques And Applications: A Survey</i>	<i>IJCEA-International Journal of Computer Engineering and Applications</i>	Volume XII, Issue I	ISSN 23213469	Jan 2018

**Books & Journals edited / Published:**

<i>Title of the Book</i>	<i>Name(S)</i>	<i>Year of Publication</i>	<i>Edition</i>	<i>Publication</i>
<b><i>Computer, Communication, and Signal Processing</i></b>	Erich J. Neuhold, Xavier Fernando, Joan Lu, Selwyn Piramuthu, Aravindan Chandrabose	Springer 2022	2022 Volume 651	Print ISBN 978-3-031-11632-2 eBook ISBN 978-3-031-11633-9
<b><i>A Learner-Centered Instruction Manual for Environmental Education</i></b>	Dr. R. Gunaseeli, Dr. Priyatharshini Rajendran, Mrs. J. Melba Rosalind, Dr. Akshaya Murugesan	2017	I	ISBN 9788192173115
<b><i>Inservice Training Programme for School Teachers of Madurai District</i></b>	Lady Doak College, Madurai	2017	I	Tamilnadu State Council for Science and Technology

**Invited talks:**

<b>Topic for the Guest Lecture</b>	<b>College</b>	<b>Dates</b>
<i>Embracing Challenges in the IT field to excel</i>	Fatima College, Madurai	9th July 2025
<i>Machine Learning Trends in NLP – International online FDP on Advanced Technologies and Trends in Computing</i>	Mangayarkarasi College of Arts and Science for Women, Madurai	24-28th July 2023
<i>Workshop on</i>	V.V.Vanniaperumal College for	16 & 17 Feb 2021

<i>JQUERY</i>	Women, Virudhunagar	
<i>Reducing the use of single use of plastic and 3R principles</i>	EMG Yadava Womens college, Madurai	7th August 2018

***Papers presented in the Conferences/seminars:***

<b>Title of the Paper</b>	<b>Name of the Conference</b>	<b>Dates</b>
<i>Information Technology Enabled Services</i>	The Role of Foreign Direct Investment in Indian Business	15 <sup>th</sup> Oct 2005
<i>Analysis of Best Suited RFID tag for Library service</i>	International Conference on Advanced Computing, ICAC-09	06 <sup>th</sup> - 8 <sup>th</sup> Aug, 2009
<i>Image Mining Technique for Extracting Features of Medical Images</i>	National Conference on Emerging Trends in Software Technologies	10 & 11 March 2011
<i>Sentiment Analysis Techniques and Applications: A Survey</i>	National conference on Data Science, Communication & Multimedia (NCDCM 2017)	29 <sup>th</sup> December 2017
<i>Implications of Machine Learning Tools in Educational Big Data Analytics</i>	International Conference on Innovations in Engineering and Industrial Applications (ICIEIA 2018)	11 <sup>th</sup> & 12 <sup>th</sup> May, 2018
<i>Sentiment Classification of WhatsApp Data Context and Topic Analysis Using R Tool</i>	International Conference on “New Frontiers in mathematics and computing”	18 <sup>th</sup> & 19 <sup>th</sup> Feb 2019
<i>Comparative Sentiment Analysis of Students’ Feedback using Machine Learning Methods</i>	International Conference on Recent Trends & Technologies in Soft Computing (ICRTSC’20)	28 <sup>th</sup> & 29 <sup>th</sup> September 2020
<i>Analysing Students’ Opinions Towards Online Learning</i>	International Conference on Mathematical Modelling and Computational Intelligence Techniques (ICMMCIT-2021)	10 <sup>th</sup> - 12 <sup>th</sup> Feb 2021
<i>Ensemble Model for Classifying Sentiments of Online Course Reviews using blended Feature Selection methods</i>	6 <sup>th</sup> Virtual International Conference on Computer, Communication, and Signal Processing (ICCCSP 2022)	23 – 25 Feb, 2022.
<i>Predicting Students’ Satisfaction towards Online Courses using Aspect-based Sentiment Analysis</i>	6 <sup>th</sup> Virtual International Conference on Computer, Communication, and Signal Processing (ICCCSP 2022)	23 – 25 Feb, 2022
<i>Poster Presentation</i>	International Conference on New Avenues in Applied Sciences	2 <sup>nd</sup> & 3 <sup>rd</sup> February, 2023
<i>Machine Learning Based Product Recommendation System Using Filtering Methods</i>	International Conference on Innovative Techniques in Contemporary Technologies (ICITCT-2023)	5 <sup>th</sup> May 2023

<i>Analyzing the Reviews and Rating the Restaurant using ensemble model</i>	International Conference on Innovative Techniques in Contemporary Technologies (ICITCT-2023)	5 <sup>th</sup> May 2023
<i>IOT SOLUTIONS FOR IMPROVING AGRICULTURE IRRIGATION</i>	International Conference on Recent Trends in Inter Disciplinary Innovations bridging Computer Science and Life Sciences (RTIICSM – 2024)	27 <sup>th</sup> & 28 <sup>th</sup> March, 2024
<i>Deep Learning Approaches used in Intrusion Detection</i>	International Conference on Artificial Intelligence, Machine Learning, and Data Science: Advances and Applications	18 <sup>th</sup> and 19 <sup>th</sup> Dec, 2024
<i>Deep Learning Approaches used in Intrusion Detection</i>	International Conference on Artificial Intelligence, Machine Learning, and Data Science: Advances and Applications	18 <sup>th</sup> and 19 <sup>th</sup> Dec, 2024
<i>Exploring Machine Learning Techniques for Credit Card Fraud Detection</i>	International Conference on Artificial Intelligence, Machine Learning, and Data Science: Advances and Applications	18 <sup>th</sup> and 19 <sup>th</sup> Dec, 2024

#### ***Workshops / Seminars / Webinars:***

<b>No. of Workshops / Seminars / Webinars attended</b>	<b>98</b>
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#### ***MOOCs Contribution:***

<b>Content writer</b>	<b>EMRC, Madurai Kamaraj University, 2022</b>	<b>Data Mining Swayam Portal</b>
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#### ***Notable Roles/Committees served:***

- **IQAC**
- **NIRF**
- **AQAR**
- **Documentation Committee**
- **Research Culture Promotion Committee**
- **Environmental Studies**
- **Christian Studies**
- **ITES Club**
- **Human Rights and Women's Studies**

#### ***Conference/workshops/lectures organized :***

<i>Program</i>	<i>Department</i>	<i>From</i>	<i>To</i>
NIRF Methodology and Measures to improve in Ranking	IQAC	10.3.2023	10.3.2023
Effective Manuscript Writing Workshop	RD Cell & Computer Science	09.3.2023	09.30.2023
State level Workshop on “Research Trends in Machine Learning”	Computer Science	28-09-2018	28-09-2018

**Online Courses Completed:**

<i>Name of the course</i>	<i>Platform</i>
<i>Python</i>	Spoken Tutorial Project, IIT Bombay, funded by National Mission on Education through ICT, MHRD, Govt., of India.
<i>Data Science Bootcamp Preparatory</i>	Flatiron School's online learning platform
<i>Foundations of Cybersecurity</i>	Coursera
<i>Connect and Protect: Networks and Network Security</i>	Coursera
<i>Play It Safe: Manage Security Risks</i>	Coursera
<i>Tools of the Trade: Linux and SQL</i>	Coursera
<i>MongoDB for SQL Experts</i>	MongoDB