

# Mrs S Thavareesan B.Sc (Hons) M.Phil

Senior Lecturer(Gr II) in Computer Science

Department of Computing

Faculty of Science

Eastern University

Sri Lanka.

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<b>Address</b>	Dept. of Computing, Faculty of Science, Eastern University, Sri Lanka.
<b>Date of Birth</b>	26 <sup>th</sup> of April 1987
<b>Age</b>	37
<b>Nationality</b>	Sri Lankan Tamil
<b>Gender</b>	Female
<b>Civil Status</b>	Married
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<b>URL</b>	<a href="http://www.fsc.esn.ac.lk/index.php/sajeetha-thavareesan">http://www.fsc.esn.ac.lk/index.php/sajeetha-thavareesan</a> <a href="https://scholar.google.com/citations?hl=en&amp;user=yiL0uLUAAAAJ">https://scholar.google.com/citations?hl=en&amp;user=yiL0uLUAAAAJ</a> <a href="https://www.researchgate.net/profile/Sajeetha_Thavareesan">https://www.researchgate.net/profile/Sajeetha_Thavareesan</a>

## Personal Profile

Im currently working as a Senior Lecturer in Computer Science. My research area falls under **Natural Language Processing**.

## Education

### 2018-2020 MPhil in Computer Science

University of Jaffna, Sri Lanka.

Effective Date: 17<sup>th</sup> of November 2020.

Reg. No: FGS/MPhil/PS/CS/2017/01

### 2007-2012 B.Sc [Hons] (Special in Computer Science) *Second Class Upper Division.*

Eastern University, Sri Lanka

Effective Date: 19<sup>th</sup> of October 2012.

Reg. No: EU/IS/2006/PHY/27.

## Employment History

### 2020 – Present Senior Lecturer(Gr II) in Computer Science

Department of Computing, Faculty of Science, Eastern University. Sri Lanka.

Date: 2020 – Until today

- 2014 – 2020**    **Lecturer(Prob.) in Computer Science**  
Department of Mathematics, Faculty of Science, Eastern University. Sri Lanka.  
Date: 12 March 2014 – 16 Nov 2020
- 2013 – 2014**    **Visiting Lecturer in Computer Science**  
Faculty of Sciences, Eastern University, Sri Lanka  
Date: 02 September 2013 – 11 March 2014
- 2013 – 2014**    **Assistant Librarian**  
Faculty of Health Care Sciences, Eastern University, Sri Lanka  
Date: 02 September 2013 – 11 March 2014
- 2013 – 2013**    **Assistant Lecturer (On Contract)**  
Department of Mathematics, Faculty of Science, Eastern University, Sri Lanka  
Date: 01 July 2013 – 01 September 2013
- 2012 – 2013**    **Demonstrator (On Contract)**  
Department of Mathematics, Faculty of Science, Eastern University, Sri Lanka  
Date: 05 November 2012 – 30 June 2013

## Research Interests

- ⊙ Natural Language Processing
- ⊙ Machine Learning
- ⊙ Android Software Development

## Publications

- ⊙ Jindal, Nitesh, Prasanna Kumar Kumaresan, Rahul Ponnusamy, Sajeetha Thavareesan, Saranya Rajiakodi, and Bharathi Raja Chakravarthi. "MISTRA: Misogyny Detection through TextImage Fusion and Representation Analysis." *Natural Language Processing Journal* 7 (2024): 100073.
- ⊙ Ponnusamy, Rahul, Kathiravan Pannerselvam, R. Saranya, Prasanna Kumar Kumaresan, Sajeetha Thavareesan, S. Bhuvanewari, Anshid Ka, Susminu S. Kumar, Paul Buitelaar, and Bharathi Raja Chakravarthi. "From Laughter to Inequality: Annotated Dataset for Misogyny Detection in Tamil and Malayalam Memes." In *Proceedings of the 2024 Joint International Conference on Computational Linguistics, Language Resources and Evaluation (LREC-COLING 2024)*, pp. 7480-7488. 2024.
- ⊙ Ravikiran, Manikandan, Ratnavel Rajalakshmi, Bharathi Raja Chakravarthi, and Sajeetha Thavareesan. "Findings of the First Shared Task on Offensive Span Identification from Code-Mixed Kannada-English Comments." In *Proceedings of the Fourth Workshop on Speech, Vision, and Language Technologies for Dravidian Languages*, pp. 43-48. 2024.
- ⊙ Pannerselvam, Kathiravan, Saranya Rajiakodi, Sajeetha Thavareesan, Sathiyaraj Thangasamy, and Kishore Ponnusamy. "SetFit: A Robust Approach for Offensive Content Detection in Tamil-English Code-Mixed Conversations Using Sentence Transfer Fine-tuning." In *Proceedings of the Fourth Workshop on Speech, Vision, and Language Technologies for Dravidian Languages*, pp. 35-42. 2024.
- ⊙ Kumar, Lavanya Sambath, Asha Hegde, Bharathi Raja Chakravarthi, Hosahalli Shashirekha, Rajeswari Natarajan, Sajeetha Thavareesan, Ratnasingam Sakuntharaj, Thenmozhi Durairaj, Prasanna Kumar Kumaresan, and Charmathi Rajkumar. "Overview of Second Shared Task on Sentiment Analysis in Code-mixed Tamil and Tulu." In *Proceedings of the Fourth Workshop on Speech, Vision, and Language Technologies for Dravidian Languages*, pp. 62-70. 2024.

- ⊙ Ponnusamy, Rahul, Malliga Subramaniam, Sajeetha Thavareesan, and Ruba Priyadharshini. "Team-Tamil@ LT-EDI-RANLP2023: Automatic Detection of Hope Speech in Bulgarian Language using Embedding Techniques." *LTEDI 2023* 75, no. 514 (2023): 179.
- ⊙ Ponnusamy, Rahul, S. Malliga, Sajeetha Thavareesan, Ruba Priyadharshini, and Bharathi Raja Chakravarthi. "VEL@ LT-EDI-2023: Automatic detection of hope speech in Bulgarian language using embedding techniques." In *Proceedings of the Third Workshop on Language Technology for Equality, Diversity and Inclusion*, pp. 179-184. 2023.
- ⊙ Pannerselvam, Kathiravan, Saranya Rajiakodi, Rahul Ponnusamy, and Sajeetha Thavareesan. "CSS-CUTN@ DravidianLangTech: abusive comments detection in Tamil and Telugu." In *Proceedings of the Third Workshop on Speech and Language Technologies for Dravidian Languages*, pp. 306-312. 2023.
- ⊙ Sampath, Anbukkarasi, Thenmozhi Durairaj, Bharathi Raja Chakravarthi, Ruba Priyadharshini, Subalalitha Cn, Kogilavani Shanmugavadeivel, Sajeetha Thavareesan et al. "Findings of the shared task on Emotion Analysis in Tamil." In *Proceedings of the Second Workshop on Speech and Language Technologies for Dravidian Languages*, pp. 279-285. 2022.
- ⊙ Ravikiran, Manikandan, Bharathi Raja Chakravarthi, Anand Kumar Madasamy, Sangeetha Sivanesan, Ratnavel Rajalakshmi, Sajeetha Thavareesan, Rahul Ponnusamy, and Shankar Mahadevan. "Findings of the Shared Task on Offensive Span Identification from Code-Mixed Tamil-English Comments." *arXiv preprint arXiv:2205.06118* (2022).
- ⊙ Hande, Adeep, Karthik Puranik, Konthala Yasaswini, Ruba Priyadharshini, Sajeetha Thavareesan, Anbukkarasi Sampath, Kogilavani Shanmugavadeivel, Durairaj Thenmozhi, and Bharathi Raja Chakravarthi. "Offensive Language Identification in Low-resourced Code-mixed Dravidian languages using Pseudo-labeling." *arXiv preprint arXiv:2108.12177* (2021).
- ⊙ Thavareesan, Sajeetha, and Sinnathamby Mahesan. "Sentiment Analysis in Tamil Texts using k-means and k-nearest neighbour." In *2021 10th International Conference on Information and Automation for Sustainability (ICIAFS)*, pp. 48-53. IEEE, 2021.
- ⊙ Hande, Adeep, Siddhanth U. Hegde, Ruba Priyadharshini, Rahul Ponnusamy, Prasanna Kumar Kumaresan, Sajeetha Thavareesan, and Bharathi Raja Chakravarthi. "Benchmarking multi-task learning for sentiment analysis and offensive language identification in under-resourced dravidian languages." *arXiv preprint arXiv:2108.03867* (2021).
- ⊙ Hegde, Siddhanth U., Adeep Hande, Ruba Priyadharshini, Sajeetha Thavareesan, Ratnasingam Sakuntharaj, Sathiyaraj Thangasamy, B. Bharathi, and Bharathi Raja Chakravarthi. "Do Images really do the Talking? Analysing the significance of Images in Tamil Troll meme classification." *arXiv preprint arXiv:2108.03886* (2021).
- ⊙ Kumaresan, Prasanna Kumar, Ratnasingam Sakuntharaj, Sajeetha Thavareesan, Subalalitha Navaneethakrishnan, Anand Kumar Madasamy, Bharathi Raja Chakravarthi, and John P. McCrae. "Findings of Shared Task on Offensive Language Identification in Tamil and Malayalam." In *Forum for Information Retrieval Evaluation*, pp. 16-18. 2021.
- ⊙ Chakravarthi, Bharathi Raja, Ruba Priyadharshini, Sajeetha Thavareesan, Dhivya Chinnappa, Durairaj Thenmozhi, Elizabeth Sherly, John P. McCrae et al. "Findings of the Sentiment Analysis of Dravidian Languages in Code-Mixed Text." *arXiv preprint arXiv:2111.09811* (2021).
- ⊙ Chakravarthi, Bharathi Raja, Dhivya Chinnappa, Ruba Priyadharshini, Anand Kumar Madasamy, Sangeetha Sivanesan, Subalalitha Chinnaudayar Navaneethakrishnan, Sajeetha Thavareesan, Dhanalakshmi Vadeivel, Rahul Ponnusamy, and Prasanna Kumar Kumaresan. "Developing Successful Shared Tasks on Offensive Language Identification for Dravidian Languages." *arXiv preprint arXiv:2111.03375* (2021).

- ⊙ Chakravarthi, Bharathi Raja, Ruba Priyadharshini, Sajeetha Thavareesan, Dhivya Chinnappa, Durairaj Thenmozhi, Elizabeth Sherly, John P. McCrae et al. "Findings of the Sentiment Analysis of Dravidian Languages in Code-Mixed Text." arXiv preprint arXiv:2111.09811 (2021).
- ⊙ Priyadharshini, Ruba, Bharathi Raja Chakravarthi, Sajeetha Thavareesan, Dhivya Chinnappa, Durairaj Thenmozhi, and Rahul Ponnusamy. "Overview of the DravidianCodeMix 2021 Shared Task on Sentiment Detection in Tamil, Malayalam, and Kannada." In Forum for Information Retrieval Evaluation, pp. 4-6. 2021.
- ⊙ Ghanghor, Nikhil, Rahul Ponnusamy, Prasanna Kumar Kumaresan, Ruba Priyadharshini, Sajeetha Thavareesan, and Bharathi Raja Chakravarthi. IIITK@ LT-EDI-EACL2021: Hope Speech Detection for Equality, Diversity, and Inclusion in Tamil, Malayalam and English. In Proceedings of the First Workshop on Language Technology for Equality, Diversity and Inclusion, pp. 197-203. 2021.
- ⊙ Karthik Puranik, Adeep Hande, Ruba Priyadharshini, Sajeetha Thavareesan, and Bharathi Raja Chakravarthi. IIIT@LT-EDI-EACL2021-Hope Speech Detection: There is always hope in Transformers. In Proceedings of the First Workshop on Language Technology for Equality, Diversity and Inclusion, Online. Association for Computational Linguistics. 2021.
- ⊙ Ghanghor, Nikhil, Parameswari Krishnamurthy, Sajeetha Thavareesan, Ruba Priyadharshini, and Bharathi Raja Chakravarthi. IIITK@ DravidianLangTech-EACL2021: Offensive Language Identification and Meme Classification in Tamil, Malayalam and Kannada. In Proceedings of the First Workshop on Speech and Language Technologies for Dravidian Languages, pp. 222-229. 2021.
- ⊙ Hegde, Siddhanth U., Adeep Hande, Ruba Priyadharshini, Sajeetha Thavareesan, and Bharathi Raja Chakravarthi. UVCE-IIIT@ DravidianLangTech-EACL2021: Tamil Troll Meme Classification: You need to Pay more Attention. arXiv preprint arXiv:2104.09081 (2021).
- ⊙ Yasaswini, Konthala, Karthik Puranik, Adeep Hande, Ruba Priyadharshini, Sajeetha Thavareesan, and Bharathi Raja Chakravarthi. IIIT@ DravidianLangTech-EACL2021: Transfer Learning for Offensive Language Detection in Dravidian Languages. In Proceedings of the First Workshop on Speech and Language Technologies for Dravidian Languages, pp. 187-194. 2021.
- ⊙ Sivalingam, Disne, and Sajeetha Thavareesan. OffTamil@ DravidianLangTech-EACL2021: Offensive Language Identification in Tamil Text. In Proceedings of the First Workshop on Speech and Language Technologies for Dravidian Languages, pp. 346-351. 2021.
- ⊙ Adeep Hande, Karthik Puranik, Ruba Priyadharshini, Sajeetha Thavareesan, Bharathi Raja Chakravarthi: Evaluating Pretrained Transformer-based Models for COVID-19 Fake News Detection. In Proceedings of 5th International Conference on Computing Methodologies and Communication Computing Methodologies 2021 (ICCMC 2021).
- ⊙ Shubhanker Banerjee, Arun Jaypal, and Sajeetha Thavareesan: NUIG-Shubhanker@Dravidian-CodeMix-FIRE2020: Sentiment Analysis of Code-Mixed Dravidian text using XLNet. In FIRE (Working Notes). CEUR, Hyderabad, India, 2020.
- ⊙ Sajeetha, Thavareesan. and Mahesan, Sinnathamby: Sentiment Lexicon Expansion using Word2vec and fastText for Sentiment Prediction in Tamil texts at MerCon 2020, 28-29 July 2020.
- ⊙ Sajeetha, Thavareesan. and Mahesan, Sinnathamby: An improved kNN algorithm using K-means and fastText to predict sentiments expressed in Tamil texts at RISTCON 2020, University of Ruhuna, p. 63, 22 January 2020.
- ⊙ Thavareesan, Sajeetha, and Sinnathamby Mahesan. "Sentiment Analysis in Tamil Texts: A Study on Machine Learning Techniques and Feature Representation." In 2019 14th Conference on Industrial and Information Systems (ICIIS), pp. 320-325. IEEE, 18-20 December 2019.

- ⊙ Sajeetha, Thavareesan. and Mahesan, Sinnathamby: Unsupervised Sentiment Analysis on Tamil texts, In SL-SWCS'19, University of Jaffna, Sri Lanka, December 2019.
- ⊙ Sajeetha, Thavareesan. and Mahesan, Sinnathamby: Sentiment Analysis on Tamil texts using K-means and K-Nearest Neighbor, In SL-SWCS'19, University of Jaffna, Sri Lanka, December 2019.
- ⊙ Sajeetha, T. and Mahesan, S.: "A Literature Review on Sentiment Analysis in Tamil Texts", In Proceeding of 26<sup>th</sup> Annual Sessions of Jaffna Science Association (JSA), Jaffna, Sri Lanka, pp. 30–31, 2019.
- ⊙ Thavareesan, S. and Mahesan, S.: "Review on sentiment analysis in Tamil texts", In Proceeding of Journal of Science (JSc), Eastern University of Sri Lanka (EUSL), Sri Lanka, vol. 9 No. 2, pp. 1–19, 2018.
- ⊙ Sajeetha Thavareesan.: "Review on Sentiment Lexicons of Indian Languages", In Journal of Progress in Non-linear Dynamics and Chaos (PINDAC), vol. 6, no. 6, pp. 65–69, 2018.
- ⊙ K. A. N. K. Karunarathna and Sajeetha Thavareesan.: "Readiness for Learning with Mobile Phones: A Case Study", In Asian Journal of Education and Social Studies, vol. 2, no. 3, pp. 1–11, 2018.
- ⊙ Sajeetha Thavareesan.: "Android Based Patients Healthcare Management System", In Journal of Information Systems & Information Technology (JISIT), vol. 1 no. 1, pp. 1–9, 2016.
- ⊙ Sajeetha Thavareesan.: "Smartphone-Based Patient Health Care Management System", In Diabetes Technology Meeting Abstracts, Journal of Diabetes Science and Technology, vol. 10, no. 2, pp. S102, March 2016.

## Presentations

- ⊙ Presented a paper titled Sentiment Lexicon Expansion using Word2vec and fastText for Sentiment Prediction in Tamil texts at MerCon 2020, 28-29 July 2020. (Oral)
- ⊙ Presented an abstract titled An improved kNN algorithm using K-means and fastText to predict sentiments expressed in Tamil texts at RISTCON 2020, University of Ruhuna, 22 January 2020. (Oral)
- ⊙ Presented a paper titled Sentiment Analysis in Tamil Texts: A Study on Machine Learning Techniques and Feature Representation, In IEEE International Conference on Industrial and Information Systems (ICIIS), Peradeniya, Sri Lanka, 18-20 December 2019. (Oral)
- ⊙ Presented a poster titled Unsupervised Sentiment Analysis on Tamil texts, In SLSWCS'19, University of Jaffna, Sri Lanka, December 2019. (Poster)
- ⊙ Presented a poster titled Sentiment Analysis on Tamil texts using K-means and K-Nearest Neighbor, In SLSWCS'19, University of Jaffna, Sri Lanka, December 2019. (Poster)
- ⊙ Presented an abstract titled A Literature Review on Sentiment Analysis in Tamil Texts in Jaffna Science Association, Jaffna, Sri Lanka, August 2019. (Oral)
- ⊙ Presented the ongoing work at the Symposium on National Languages Processing (SNLP) held on 22nd & 23rd March 2019 at University of Moratuwa. (Oral)

## Awards

- ⊙ "Kanapathipillai Karunairajah" memorial Award for the Best Research conducted by the Final Year students of 2006 / 2007.

## Other academic activities

- ⊙ Completed the training programme on "Training on Visionary Academic Administrative Leadership" conducted by SDC/ EUSL.
- ⊙ Faculty student Counsellor in 2023.
- ⊙ Coordinator Basic Tamil and Basic Sinhala courses (Since 1st of September 2023).
- ⊙ Coordinator EN, ENG courses (Since 1st of November 2022).
- ⊙ Faculty Board Member since June 2016.
- ⊙ Organizers/ Fourth Workshop on Speech, Vision, and Language Technologies for Dravidian Languages (DravidianLangTech-2024) at EACL 2024.
- ⊙ Organizer/ Third Workshop on Speech and Language Technologies for Dravidian Languages.
- ⊙ Reviewer/ The 10th Ruhuna International Science and Technology Conference, RISTCON 2023.
- ⊙ Visiting Lecturer in Computer Science in Department of Mathematics, Eastern University, Sri Lanka from 02 January 2014 to 11 March 2014).
- ⊙ Visiting Lecturer in Computer Science for External Degree students, Eastern University, Sri Lanka from 23 November 2013 to 11 March 2014.