

**Kelaniyage Dinuja Ratnayake Perera**  
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## ACADEMIC QUALIFICATIONS

M.Sc - reading (Computer Science specialising in Data Science, Analytics & Engineering), University of Moratuwa, Sri Lanka, 2022 (Expected).

**Dissertation Title:** Hate Speech Detection using Semantic Oppositeness Measure

**Advisor:** Dr. Nisansa de Silva

Grad. Dip. (Electronics Telecommunication & Computer Engineering), Institution of Engineers, Sri Lanka, 2020.

Obtained a Distinction with a GPA of 3.75 (out of 4.20).

B.Sc (Electronics & IT Theme), University of Colombo, Sri Lanka (2015-2019).

Obtained a Second Class Honours with a GPA of 3.24 (out of 4.00)

## RESEARCH AND PROFESSIONAL EXPERIENCE

- **Machine Learning Engineer**, CML Insight Inc., Texas, USA. (Nov 2021 — to date)  
**Tasks carried-out:** Unifying datasets, NLP feature engineering on unified dataset.  
Feature evaluation for predictive power & target leakage.  
Time-based model development.  
Cohort based modelling.  
Quantify metrics on data & target non-stationarity.
- **Instructor**, Department of Information Systems Engineering, University of Colombo School of Computing, Sri Lanka. (June 2019 — October 2021)
- **Graduate Intern (Data Analyst)**, Brandix Apparel Limited. (June 2019)
- **Trainee Engineer**, Airport & Aviation Services (Sri Lanka) (Private) Limited. (Aug 2018 — Jan 2019)

## AFFILIATED RESEARCH LABS AND GROUPS

- **Electronics lab**, University of Colombo School of Computing, Sri Lanka : Instructor in-charge (June 2019 — Oct 2021)

## RESEARCH INTERESTS

- Natural Language Processing (NLP), Computational Linguistics (CL) and language dependant cognition
- Machine Learning (ML) and Artificial General Intelligence (AGI)
- Data Science, Data mining, and visualization
- Bioinformatics

## AREA CHAIRS

- International Conference on Advances in ICT for Emerging Regions Conference (ICTer) 2020, *Physical Computing*, Track Chair

## PAPER REVIEW FOR CONFERENCES & PANEL OF JUDGES

- Panel member, 19th Young Computer Scientist Competition (YCS), 12th National Level School ICT championship : 2021
- Reviewer, International Conference on Advances in ICT for Emerging Regions Conference (ICTer) : November 2020
- Reviewer, International Conference on Advances in ICT for Emerging Regions Conference (ICTer) : September 2019
- Panel member, 18th Young Computer Scientist Competition (YCS), 11th National Level School ICT championship: 2019

## AWARDS AND HONOURS

- Mahapola Scholarship to pursue undergraduate studies, awarded by the Government of Sri Lanka (2015-2018).
- General Certificate Exam Advanced Level, Physical Sciences stream, Sri Lanka (2013)- Gained entrance to University of Colombo, Sri Lanka.
- Australian National Chemistry Quiz, Distinction (2011).
- Junior Science Olympiad, Sri Lanka. Bronze Medal (2009).
- **Prize Winner**, *Information Communication Technology, Class Prize*, Sirimavo Bandaranaike Vidyalaya, Colombo 07 (2008-2009).

## VOULUNTEER WORK

- Assisted in conducting an Electronic Workshop for the Junior Inventors Club at Prof. Ediriweera Sarathchandra School to inspire STEM education in Sri Lanka: January 2020.
- Assisted in conducting an Electronic Workshop for selected young inventors at National Institute of Education, Sri Lanka: December 2019.

## PROFESSIONAL ACTIVITIES

### Teaching Assistant (Postgraduate)

- **Practical conductor and Grader**, “MCS 4201: Cognitive Syatems”, Master of Computer Science program, University of Colombo School of Computing, Sri Lanka, 2020-2021.
- **Practical conductor and Grader**, “MCS 4202: Embedded Syatems”, Master of Computer Science program, University of Colombo School of Computing, Sri Lanka, 2020-2021.

### Teaching Assistant (Undergraduate)

- **Instructor**, “SCS3201/IS3117/CS3120: Machine Learning and Neural Computing”, University of Colombo School of Computing, Sri Lanka. Under Dr. Kasun de Soysa (2021)
- **Instructor**, “SCS4204/IS4103 /CS4104:Data Analytics”, University of Colombo School of Computing, Sri Lanka.
- **Instructor**, “ CS1101: Fundamentals of Programming”, University of Colombo School of Computing, Sri Lanka. Under Dr. Dinuni K. Fernando (2021).
- **Instructor**, “IS1112: Probability and Statistics”, University of Colombo School of Computing, Sri Lanka. Under Dr. Prabath Badullaheewage (2021).
- **Instructor**, “SCS2209: Database II”, University of Colombo School of Computing, Sri Lanka. Under Ms. Hiruni Kegalle (2021).
- **Instructor**, “SCS2213: Electronics and Physical Computing”, University of Colombo School of Computing, Sri Lanka. Under Dr. Hiran Ekanayake and Mr. Rangana Jayasanka (2019-2020).
- **Course coordinator**, “SCS4124/SCS4224: Final Year Project in Computer Science”, University of Colombo School of Computing, Sri Lanka. Under Dr. Thilini Nadungodage (2019-2021).
- **Course coordinator**, “SCS3202/CS3102: Advanced Computer Architecture”, University of Colombo School of Computing, Sri Lanka. Under Dr. D.N. Ranasinghe (2021).
- **Course coordinator**, “SCS4118: Robotics”, University of Colombo School of Computing, Sri Lanka. Under Dr. Hiran Ekanayake (2019-2020).
- **Course coordinator**, “SCS4117: Embedded Systems”, University of Colombo School of Computing, Sri Lanka. Under Dr. Hiran Ekanayake(2019-2020).
- **Co-supervisor and Project Grader**, “SCS2202: Group Project I” for Bachelor of Computer Science and Bachelor of Science in Computer Science degree programme , University of Colombo School of Computing, Sri Lanka. Under Dr. G.K.A. Dias (2021).
- **Co-supervisor and Project Grader**, “SCS3214: Group Project II” for Bachelor of Computer Science and Bachelor of Science in Computer Science degree programme , University of Colombo School of Computing, Sri Lanka. Under Dr. Rasika Dayarathna (2021).
- **Exam invigilator**, Undergraduate examination for Bachelor of Computer Science and Bachelor of Science in Computer Science degree programme , University of Colombo School of Computing, Sri Lanka (2019-2021).
- **Exam invigilator & Grader**, Bachelor of Information Technology(BIT) , University of Colombo School of Computing, Sri Lanka (2019-2021).

**Academia Administration**

- **Academic Mentor**, University of Colombo School of Computing, Sri Lanka — Batch '18, Batch '19
- **Track Chair Coordinator**, International Conference on Advances in ICT for Emerging Regions Conference (ICTer) (2021 December).
- **Coordinator**, International Conference on Advances in ICT for Emerging Regions Conference (ICTer) (2019 September).
- **Organizing Committee** Orientation program, preparing tutorials and conducting lectures, Computer Science and Information Systems Degree programs-Internal Degrees offered by University of Colombo (2020-2021).
- **Member** eMuseum, content developer, University of Colombo School of Computing (2021)
- **Member** eMuseum, Educational space developer, University of Colombo School of Computing (2021)

**Other**

- **Associate Member**, Institution of Engineers Sri Lanka (IESL) (2021 Dec — to date)
- **Student Member**, Institution of Engineers Sri Lanka (IESL) (2017 April — 2021 Dec)
- **Developing Leadership Qualities & Positive Thinking**, Workshop by Ministry of Higher Education, Sri Lanka (2014 Oct)

**PERSONAL INFORMATION**

- Full Name : Kelaniyage Dinuja Ratnayake Perera
- Citizenship : Sri Lankan
- Communication Proficiency
  - English (excellent fluency)
  - Sinhala (excellent fluency)
- Interests and Skills
  - YouTuber
  - Teaching
  - Data Analysis
  - Causal Machine Learning
  - Eastern classical music
  - Philosophy