

THUSHARA R. BANDARA

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SUMMARY

A confident speaker and an inspirational lecturer, able to impart advanced theories and other information to audiences of all levels. I am encouraged by my passion, curiosity, and aspiration as a researcher in Computer Science. Researches in the fields of Computer Vision, Digital Image Processing, Digital Signal Processing, Deep Learning, and Data Science are my current priorities. I have the capacity to take responsibility based on given opportunities and the ability to accept new challenges.

WORK EXPERIENCE

University of Peradeniya, Faculty of Science,
Department of Statistics and Computer Science.

March 2019 - Present
Temporary Lecturer in Computer Science

Prepare lecture notes.

Conduct lectures & practical sessions.

Prepare & mark exam papers.

- BC 301 - Basic Computing - Instructor & In-charge (2019).
- CS 100 - Computer Applications (Practical) - Instructor & In-charge (2020).
- CS 104 - Structured Oriented Programming Practical - Instructor (2019-2020).
- CS 105 - Object Oriented Programming Practical - Instructor (2019).
- CS 202 - Data Structures Practical - Instructor (2019-2020).
- CS 303 - Operating System Concepts - Instructor & In-charge (2020).
- CS 308 - Computer Graphics Programming - Instructor & In-charge (2019).
- CS 310 - Server-Side Web Programming - Tutor (2020).
- CS 404 - Parallel processing - Tutor (2019).
- CS 413 - Information and Network Security - Tutor (2019).
- CS 421 - Project in Computer Science II - Tutor (2020).

University of Peradeniya,
Postgraduate Institute of Science.

March 2019 - Present
Visiting Instructor

Prepare lecture notes.

Conduct lectures & practical sessions.

Prepare & mark exam papers.

- ESR 514 - Numerical Methods and Algorithms in RS and GIS - Subject Expert & In-charge (2019-2020).
- IT 503 - Programming Laboratory I - Instructor (2020).
- IT 508 - Document Markup Languages - Instructor (2019).

University of Peradeniya,
Centre for Distance and Continuing Education.

July 2020 - Present

- CLT 2104 - Basic ICT Skills of Advanced Certificate in Laboratory Technology - Co-In-charge (2020).

University of Peradeniya, Faculty of Arts,
Department of Education.

March 2019 - July 2019
Visiting Instructor

Conduct practical sessions.

▫ EDU 307 – ICT Database Systems (Lab) – Instructor (2019).

FriMi Digital Bank,
Nations Trust Bank PLC, Colombo, Sri Lanka.

November 2018 - February 2019
Data Analytics Intern

Apply advanced analytics techniques to solve business problems: predictive modeling using deep learning, clustering, customer segmentation, decision trees etc.

Accomplish business intelligence: Tableau Desktop, Tableau Bridge, and Tableau online platforms.

RESEARCH EXPERIENCE

December 2018 - Final year student developed an Autoencoder based Image Compression Algorithm using Deep Learning, Image Processing, and Signal Processing.

EDUCATION

University of Peradeniya, Faculty of Science,
Department of Statistics and Computer Science.

January 2015 - December 2018

B.Sc. in Computer Science (Special) Honors.

Second Class Upper | Computer Science GPA - 3.63/4.00 | Overall GPA - 3.46/4.00.

Subjects - Computer Science | Mathematics | Physics.

Kingswood College Kandy.

August 2013

GCE Advanced Level Examination.

Combined Mathematics | Chemistry | Physics.

GCE Ordinary Level Examination.

December 2009

ACTIVITIES

Member of the Organizing Committee of the International Conference on Environmental and Medical Statistics (ICEMS) 2020, Postgraduate Institute of Science, University of Peradeniya, Sri Lanka (9th and 10th January 2020).

Member of the Organizing Committee of the Science Industry Day 2019, Faculty of Science, University of Peradeniya, Sri Lanka (20th September 2019).

Member of the Organizing Committee of the Opening Ceremony of the New Statistics and Computer Science Building (10th June 2019).

Member of the Organizing Committee of the Faculty Congress (10th May 2019).

STRENGTHS

Programming Languages

Python (Numpy, Matplotlib, Pandas, Scikit-learn, Scikit-image, Pillow, Tkinter, Tensorflow, Keras, Theano), R (Base, Rshiny), Java, C, C++, SQL.

Applications

Git, GitHub, Anaconda Distribution, MS Office Package, MySQL, Cygwin, RStudio, Blender, Android Studio.

Skills	Self-learning, Communicative, Organization skills, Teamwork.
Professional Language Proficiency	English, Sinhala.

PEER-REVIEWED (PR) WORK

G.G.H.M.T.R. Bandara and R. Siyambalapitiya, "Deep Autoencoder-based Image Compression using Multi-layer Perceptrons." International Journal of Soft Computing and Engineering (IJSCE) Volume-9 Issue-6. On-line: **(March 2020)**. [Link](#).

NON-PEER-REVIEWED (NPR) WORK

[Atheneum](#) is an API which provides a mechanism for book enthusiasts to get information about their books of interest. **Apr 2020**.

[GPS Distance Calc](#) to calculate the actual distance between two geographical coordinates. **Jan 2020**.

[Personal Website](#) developed and hosted. **Oct 2019**.

[Analysis](#) based on Boston crimes data from Kaggle. **Oct 2019**.

[Research Entry](#) is a Research Paper Management System developed to store publications and engage with events and news related to the author's interest. **Dec 2017**.

PERSONAL

Confident Speaker. Researcher. Single. 27 years. Male.