

# 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 Autonomous Driving, Computer Vision, Deep Learning, and Digital Image Processing 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 204 - Programming using DBMS - Instructor (2020).
- CS 303 - Operating System Concepts - Instructor & In-charge (2020).
- CS 307 - Computer Graphics - Instructor & In-charge (2020).
- CS 308 - Computer Graphics Programming - Instructor & In-charge (2019-2020).
- 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*  
*Visiting Instructor*

- 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

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

## EDUCATION

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**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

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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 (9<sup>th</sup> and 10<sup>th</sup> January 2020).

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

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

Member of the Organizing Committee of the Faculty Congress (10<sup>th</sup> May 2019).

## STRENGTHS

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<b>Programming Languages</b>	C, C++, CSS, HTML, Java, JavaScript, MATLAB, PHP (Laravel), Python (Keras, Matplotlib, Numpy, OpenCV, Pandas, Pillow, PyTorch, Scikit-image, Scikit-learn, Tensorflow, Theano, Tkinter), R (Base, Rshiny), SQL.
<b>Applications</b>	Anaconda Distribution, Android Studio, Bash, Blender, CARLA, Cygwin, Git, iMovie, MySQL, MS Office Package, RStudio.
<b>Skills</b>	Communicative, Organization skills, Self-learning, Teamwork.
<b>Professional Language Proficiency</b>	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 help researchers to engage with events and news related to their interest (Dec 2017).

## CERTIFICATIONS

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### Introduction to Self-Driving Cars

Course offered by University of Toronto on Coursera [Certificate](#) (Nov 2020).

### Successful Negotiation: Essential Strategies and Skills

Course offered by University of Michigan on Coursera [Certificate](#) (Jul 2020).

### Deep Learning Specialization

Course offered by deeplearning.ai on Coursera [Certificate](#) (May 2020).

## PERSONAL

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