Curriculum Vitae

Piyadi Gamage Jayani Lakshika

Department of Econometrics and Business Statistics Monash University, Australia	
Email: jayani.piyadigamage@monash.edu, jayanilakshika76@gmail.com Website: https://jayanilakshika.netlify.app/ GitHub: https://github.com/JayaniLakshika LinkedIn: https://www.linkedin.com/in/jayani-lakshika-9a0297162	
≥ Education	
PhD candidate - Statistics Faculty of Business & Economics, Monash University, Australia Thesis title: Interactive and Dynamic Graphics for Studying Non-linear Dimension Reduction Models of High-dimensional Data	July 2022 —
B.Sc. (Honours) in Statistics University of Sri Jayewardenepura (USJ), Sri Lanka Thesis title: Computer Vision System For Automated Medicinal Plant Identification	January 2017 — December 2020
Diploma in Computer System Design (DCSD) National Institute of Business Management (NIBM), Sri Lanka	March 2016 — March 2017
Certificate in Business Accounting Chartered Institute of Management Accountants (CIMA), Sri Lanka	December 2015 — September 2016
♣ Appointments Held	
Teaching Associate Department of Econometrics and Business Statistics, Monash University, Australia	January 2023
Teaching Assistant (Temporary Instructor) University of Sri Jayewardenepura (USJ), Sri Lanka	July 2021 — July 2022
Associate Data Analyst Vizuamatix (Pvt) Ltd, Sri Lanka	January — November 2021
Trainee Data Analyst Vizuamatix (Pvt) Ltd, Sri Lanka	July— December 2020
Research Internship Vizuamatix (Pvt) Ltd, Sri Lanka Industrial training as a fulfillment of the degree B.Sc. (Honours) in Statistics	January — June 2020

E Publications

Papers

Lakshika, J. P., & Talagala, T. S. (2021). Computer-aided Interpretable Features for Leaf Image Classification. arXiv preprint arXiv:2106.08077

Conference proceedings

Young Scientists' Conference on Multidisciplinary Research (YCMR) abstract publication (ISSN 2815-0260)	October 2021
17^{th} applied science research poster and abstract publication (Page 74)	September 2021
Conference presentations and contributed talks	
Visualise your fitted non-linear reduction model in high-dimensional space UseR! 2024, Salzburg, Austria	2024
Visualising how non-linear dimension reduction warps your data Faculty of BusEco Three Minute Thesis (3MT) competition, Monash University, Australia	2024
Visualise your fitted non-linear dimension reduction model in the high-dimensional data space Victorian branch of the Australian and New Zealand Industrial and Applied Mathematics Society (VicANZIAM) 2024 (RMIT university, Melbourne, Australia)	2024
Visualize your fitted non-linear dimension reduction model in the high-dimensional data space — Invited speaker Bioinformatics Seminar, Monash University, Australia	2024
With non-linear dimension reduction, when can you believe what you see? Australian Statistical Conference (ASC 2023) (Wollongon, Australia)	2023
Viewing the model from a non-linear dimension reduction in the high-dimensional data space — Invited speaker 12th-Conference of the Asian Regional Section of the International Association for Statistical Computing (IASC-ARS 2023) (Wollongon, Australia)	2023
Higher studies webinar — Invited speaker University of Sri Jayewardenepura (USJ), Sri Lanka	2023
Computer Vision System for Automated Medicinal Plant Identification — Invited speaker NUMBATs meeting, Monash University, Australia	2022
Computer Vision System for Automated Medicinal Plant Identification — Invited speaker Estadistica 2021, the Annual Statistics Day organized by the Statistics Society of University of Sri Jayewardenepura, Sri Lanka	2021
Computer Vision System for Automated Medicinal Plant Identification — Invited speaker Vx Tech Talk 2021, Vizuamatix Pvt. Ltd, Sri lanka	2021

Statistical machine learning for medicinal plant leaves classification — Presentation 17th Applied Statistics Conference, Solvenia	2021
Statistical machine learning for medicinal plant leaves classification — $Speed$	
talk	
Young Scientists' Conference on Multidisciplinary Research (YSCMR 2021) which is or-	2021
ganised by the Young Scientists' Association of the National Institute of Fundamental	
Studies, Sri Lanka (NIFS-YSA)	

Wisiting

A/Prof. Ursula Laa

At the University of Natural Resources and Life Sciences, Vienna (BOKU University), accompanied by Prof. Di Cook, Prof. Eun-Kyung Lee, and A/Prof. Natalia da Silva (one week)

July 2024

R packages

airpurifyr: Provide an interface to scrape air quality data from https://openaq.org/

cardinalR: Collection of data structures.

quollr: Tool to visualise how non-linear dimension reduction warps your data

olympics: Provide an interface to scrape Olympic data from https://olympics.com/

MedLEA: Software which contains information about medicinal plants in Sri Lanka

DSjobtracker: Software which contains what skills and qualifications are required for data science related jobs

A Teaching

Tutor

[ETC5510] Introduction to data analysis	2024
[ETC1010] Introduction to data analysis	2024
[ETC3250] Introduction to machine learning	2023 - 2024
[ETC5250] Introduction to machine learning	2023 - 2024
[ETC5521] Exploratory data analysis	2023
[STA 326 2.0] R Programming	2022
[STA 213 2.0] Inferential Statistics	2022
[STA 214 1.0] Nonparametric Statistics	2022
[STA 215 2.0] Sampling techniques	2022
[STA 115 1.0] Elements of Sampling	2022
[STA 113 2.0] Descriptive Statistics	2022

[STA 114 2.0] Probability and Distribution Theory I	2022
[STA 224 2.0] Regression Analysis	2021
[STA 225 2.0] Design of Experiments	2021
[STA 226 1.0] Data Analysis II	2021
[STA 123 2.0] Probability and Distribution Theory II	2021
[STA 124 2.0] Data Analysis I	2021
[STA 125 1.0] Statistical Communication	2021
Q Awards	
Monash Business School Prestigious International Conference Award Monash University, Australia	2024
Co-Funded Graduate Research Scholarship, Monash Business School Monash University, Australia	2022 — 2026
Diploma in Computer System Design (DCSD) — Gold medalist National Institute of Business Management (NIBM), Sri Lanka	2017
OCTAVE competition — Finalists Research abstract competition organized by OCTAVE company, Sri Lanka	2021
Stat Circle quiz competition — Winners Team member of the winners at inter university quiz competition organized by the Stat Circle Faculty of Science, University of Colombo, Sri Lanka	2018
Academic Service & Community Engagment	
UseR! 2024 Session Chair Conference in Salzburg, Austria	2024
ASC Session Chair Australian Statistical Conference in Wollongong, Australia	2023
WOMBAT tutorials — Helper Monash University, Australia	2022
Statistical Consultancy Service — Department representative University of Sri Jayewardenepura (USJ), Sri Lanka	2020
Professional Memberships	
Statistical Society of Australias (SSA)	2022-
R-Ladies Melbourne	2022-
Statistics society University of Sri Jayewardenepura (USJ), Sri Lanka	2017-2022