

Contact

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Top Skills

Machine Learning
Artificial Intelligence
Statistical Modeling

Certifications

JavaScript (With Distinction)
R Essentials - IBM Badge
Evidence & Data Collection for Problem Solving (Offered by Institute of Coding & University of Leeds)
Data Visualization using Tableau
Statistics

Honors-Awards

Estadistica Challenge Trophy - Runners Up

Samadhi Chathuranga Rathnayake

Lecturer | Researcher | Data Scientist | Consultant | Software Engineer | M.Sc (CS) | B.Sc (IS) | B.Eng (SE) | PG.Dip (SML) | PG.Dip(HRM)

Sri Lanka

Summary

I am a Data Science & Software Engineering enthusiast. I am studying and researching on the fields of Artificial Intelligence and Machine Learning.

Experience

SLIIT

Lecturer

June 2022 - Present (2 years 1 month)

National Institute of Business Management (NIBM - Sri Lanka)

Visiting Lecturer

April 2022 - Present (2 years 3 months)

University of Colombo School of Computing

Visiting Lecturer

January 2022 - Present (2 years 6 months)

GISM Campus, Sri Lanka

Visiting Lecturer

March 2021 - Present (3 years 4 months)

Sri Lanka

Currently I'm involving :

- Conducting lectures for Information & Communication Technology (ICT)

University of Moratuwa

2 years 9 months

Lecturer

October 2020 - June 2022 (1 year 9 months)

The University of Moratuwa (UOM), one of the best universities in Sri Lanka for Technology.

At the Department of Decision Sciences, we are committed to helping our students master the core computational and analytical skills required to meet the challenges of today's businesses while enhancing their abilities to engage creatively and successfully in a global environment.

Currently I'm involving :

- Multivariate Methods for Business - I am conducting lectures for Multivariate Regression Analysis, Principal Component Analysis, Factor Analysis, Discriminant Analysis, Cluster Analysis.
- Probability & Statistics for Business ii - I am conducting lectures for Parametric Statistical Hypothesis Testing, Non Parametric Statistical Hypothesis Testing, Experimental Design, Probability & Random variables.
- I am conducting lectures for Python programming & R programming for Data Science.
- I am Supervising four research groups for their final year research projects.

Academic Instructor

October 2019 - October 2020 (1 year 1 month)

Currently I'm involving :

- Computer Applications - Lectures were done for 1st year students. Several assignments and a group project were conducted and graded.
- Python & R programming - Lectures were done for 1st years.
- Multivariate Methods for Business - Tutorial sessions and practical sessions were done for 3rd year students. Homework assignments, Quizzes as well as an inclass assignment were conducted.
- Mathematical Methods for Business iii - Here tutorial sessions and practical sessions were done for 2nd years for Linear Algebra. Quizzes were conducted.

- Data Mining - Assignments were conducted and graded for 3rd year students.
- Econometrics - R programming lecture was done for 2nd year students. Assignments were conducted and graded.
- Operational Research - Practical sessions were done for 3rd years.
- Numerical Methods for Business - Homework assignments were conducted for 3rd years and graded.

Module Coordinator & Grader - CODL University of Moratuwa
October 2019 - October 2020 (1 year 1 month)
Sri Lanka

Currently I'm involving :

- Probability and Statistics (Two courses ITE 3703 and ITE 3832) - Managed lecture content, Assignments were conducted and graded.
- Essentials of Machine Learning - Managed lecture content, Assignments were conducted and graded.

Linear Squared (PVT) Ltd
Associate Data Scientist
May 2019 - August 2019 (4 months)
Sri Lanka

It delivers unique products and services by combining hand crafted Machine Learning and Artificial Intelligence algorithms, to address complex business problems. Each of these building blocks integrates seamlessly with each other to provide complete and executable solutions with minimal human intervention.

I involved :

- ETL- Extract Transform Load activities.
- Automated business logics with Python and SQL.
- Developed unit tests for automated components.
- Worked with Extremely Randomised Trees for increasing the efficiency of insight engines.
- Worked with Random Search Hyper Parameter Optimisation for increasing the efficiency of insight engines.
- Worked with Recommendation Engines.

- Involved in developing mathematical logics with Artificial Intelligence concepts.

University of Colombo

Assistant Lecturer

February 2019 - April 2019 (3 months)

Colombo

The Department of Statistics of the University of Colombo is the only statistics department in a faculty of science in a Sri Lankan University. It has a rich history of teaching, research, and consulting, spanning over several decades. The department is a small cohesive unit with a supportive atmosphere.

I involved in:

- Data Science - The first part of the Data Science course, Python for Data Science, which was designed for the final year undergraduates of Statistics & Industrial Statistics special degrees and Applied Statistics Theme at Department of Statistics was done by me. Under this lecture the fundamentals of Python, numpy array operations, pandas operations as well as the visualization with matplotlib were discussed. And also some motivation for Python functions and the Object Oriented Programming in Python was given briefly.
- Applied Statistical Models - The R programming basic course was done by me under this ST 3008 course which was designed for 3rd year Applied Statistics Theme undergraduates . Here the basics of R, working with data frames and manipulation, visualization options as well as the random sample generation and related topics were focused.
- Essentials proofs of the Regression Analysis were discussed with the 3rd year undergraduates from different streams; Industrial Statistics Special, Mathematics Special, Insurance & Finance Theme, Management Science Theme and General.
- Working as an instructor for MINI TAB for first year undergraduates.
- Working as an instructor for SPSS for second year undergraduates.

Zepto

Data Scientist - Trainee

August 2018 - January 2019 (6 months)

Sri Lanka

World's simplest Artificial Intelligence powered Business Intelligence & Analytics tool. Data is the new oil and AI is already the next big thing, and there's no doubt that there's an eruption of data globally at present. Zepto has always been obsessed about how we could make people understand data better. Since its launch in 2017, Zepto has helped its users understand their business data better and its full potential.

Currently I'm involving :

- Developing a machine learning platform for data sense of the ZEPTO system - AI & Machine Learning
- Modifying the existing quick insight generation of ZEPTO system - Data Science.
- Automated sample generating algorithm & implementation in Python.
- Automated intelligent algorithm to String ID identification.
- Applying automated Odds Ratio generation and generating insights.
- Simulating data to test the uploading performance of the new system.
- Quality assurance for file merging functionality of the new system.
- Developing a method for reducing the complexity of Scatter Plots. Under this researching on High Density Sampling, Splatter Plots and Adding Jitter Methods using MATPLOTLIB and SEABORN.
- Researching on top 10 related BI products in the international market and checking the possibility of adding new insight types to the system .
- AI algorithm and Python implementation of waterfall charts for the ZEPTO system as the newest quick insight.

Education

Staffordshire University

Master of Science in Computer Science · (June 2021)

OTHM

Post Graduate Diploma in Strategic Management & Leadership · (February 2021)

Learning Resource Network

Post Graduate Diploma in Human Resource Management · (February 2021)

London Metropolitan University

Bachelor of Engineering (Honours) in Software Engineering · (2019)

University of Colombo

Bachelor of Science (Honours).Special in Industrial Statistics - First

Class · (2015 - 2019)