

# UDESHI SALGADO

## PhD Candidate

📍 Cardiff, United Kingdom  
🌐 [linkedin.com/in/udeshi-salgado](https://www.linkedin.com/in/udeshi-salgado)

☎ +44 (0)75 0876 2260

✉ [salgadomu@cardiff.ac.uk](mailto:salgadomu@cardiff.ac.uk)  
🐙 [github.com/udeshisalgado](https://github.com/udeshisalgado)

## Summary

Highly motivated PhD candidate in Health Informatics with a strong foundation in Data Science. Research focuses on developing innovative forecasting and inventory management models to optimize immunization planning and enhance healthcare decision-making. Driven by a desire to contribute to improved public health outcomes.

## Academic Background

### PhD in Business Management

Cardiff University, UK

Cardiff, UK

Oct 2024 – Present

- Recipient of **Cardiff Business School (CARBS) EPSRC Studentship Award 2024**
- PhD Project focused on enhancing global immunisation supply chains: integrating hybrid AI models into inventory optimisation considering non-monetary welfare metrics, in collaboration with JSI.
- Supervisors: Prof. Bahman Rostami-Tabar, Dr. Thanos E Goltsos, Dr. Geraint Palmer, Dr. Xun Wang

### Bachelor of Science - Honours in Statistics

University of Sri Jayewardenepura, Sri Lanka

Sri Jayewardenepura, Sri Lanka

Jan 2019 – Aug 2023

- Second Class Upper
- GPA: 3.64 out of 4.00
- Dissertation: “Detection of Tooth Anomalies Using Machine Learning and Artificial Intelligence” with **A+** Grade.

### Diploma in Software Engineering

Esoft Metro Campus, Sri Lanka

Colombo, Sri Lanka

Jan 2015 – Jul 2015

- Learning outcomes: OOP, software development lifecycle (SDLC), C#, Java, app development.

## Working Experience

### Data Scientist

Dialog Axiata PLC, Sri Lanka

Colombo, Sri Lanka

Oct 2023 – Aug 2024

- Worked on **Dynamic Pricing** projects to provide customers with personalized offers leveraging multiple Customer 360 data and AI/ML solutions.
- Contributed to the **HOME360** project, identifying customers within the same household and providing targeted offers based on household characteristics.
- Analyzed demographic and historical data to identify lead households for HHB and DTV, focusing on a household-level perspective.
- Optimizing current models using **OOP and multiprocessing techniques**.
- Tech Stack: **Python, SQL, Snowflake, AWS, SpaCy, OOP, Multiprocessing, NLP**

## Statistical Consultant

Statistical Consultancy Service, USJ, Sri Lanka

Sri Jayewardenepura, Sri Lanka

Dec 2022 – May 2023

- . Contributed to the **Examination Timetable Visualization app** using R shiny for FAS, USJ <https://github.com/StatConG2/Examination-Timetable>
- . Contributed to the implementation of **predPLSR app** for the FTIR analysis using R **Flex-dashboard**: <https://srilanka.shinyapps.io/predPLSR/>
- . Conducted Data Quality Analysis for an industrial project.
- . Conducted **Spatial Data Visualization** for Dengue Hot Spot data.
- . Contributed to the **DSjobtracker 2023 Dashboard** by working on **data collection, ETL process, and “Working Experience” visualization panel**.
- . Conducted **Exploratory Data Analysis** for several projects and **Data Quality Analysis** for an industrial project.

## Data Analyst Internship

VizuaMatix PVT Ltd. Sri Lanka

Colombo, Sri Lanka

Jun 2022 – Dec 2022

- . Engaged in data collecting, preprocessing, model development, dashboarding, and application of machine learning and deep learning.
- . Tech Stack: **Python, JavaScript, R, pyspark, PostgreSQL, MYSQL, HTML, CSS, flask, VX Analytics Tool (development tool), Git (version control), machine learning, and deep learning**.
- . Contributed to vxSafenet (Winner at NBQSA 2022 - Best in the category of ICT Network Solutions) proceeding with URL classification modeling and handling backend queries.
- . Contributed to dashboard creation using VX Analytics Tool and application development using pyspark and Flask technologies.
- . Gained experience collaborating with cross-functional teams and understanding and adapting to the business domain.

## Scholarships & Grants

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<i>Jan 2025</i>	<b>British Academy Travel and Accommodation Grant for Two-Day Mini-Conference, University of Portsmouth</b>	<i>Portsmouth, UK</i>
<i>Mar 2024</i>	<b>Engineering and Physical Sciences Research Council (EPSRC) Studentship Award 2024, Cardiff Business School, Cardiff University</b>	<i>Cardiff, UK</i>

## Honours & Awards

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<i>Apr 2024</i>	<b>Bronze Award under Medicine and Pharmacy Category for Aidentist: X-ray Classifier and Aidentist: RGB Classifier at Sahasak Nimavum National Inventions and Innovations Competition 2023 (SN 2023)</b>	<i>Colombo, Sri Lanka</i>
<i>Dec 2022</i>	<b>Most Outstanding Club Service Initiative (Virtual) - Gold Award, 31st Rotaract District Assembly</b>	<i>Colombo, Sri Lanka</i>

## Projects

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Oct 2024 Present	<b>PhD Research Project: Enhancing global immunisation supply chains: integrating hybrid AI models into inventory optimisation considering non-monetary welfare metrics.</b>	Cardiff, UK
Sep 2022 Jul 2023	<b>BSc Final Research Thesis: Detection of Tooth Anomalies Using Machine Learning and AI</b> (Supervised by Dr. Thiyanga Talagala and Dr. Lakmal Kulasekara). A+ Grade. <ul style="list-style-type: none"><li>. Aidentist: RGB Classifier - a web application for colored dental images. <a href="https://github.com/udeshisalgado/aidentist-RGB-Classifier">https://github.com/udeshisalgado/aidentist-RGB-Classifier</a></li><li>. Aidentist: X-ray Classifier - a web application for X-ray radiographs. <a href="https://github.com/udeshisalgado/aidentist-Xray-Classifier">https://github.com/udeshisalgado/aidentist-Xray-Classifier</a></li></ul>	USJ, Sri Lanka
Feb 2022 May 2022	<b>Contributed to the Development of a Netball App Using R Shiny: Evaluating performance of netball players.</b>	USJ, Sri Lanka
Sep 2021	<b>Contributed to Nic Nature-Inspired Color Palette (R package): Developed the Kandyan Dancer color theme.</b>	USJ, Sri Lanka
2021	<b>Netflix Analysis: Interactive Dashboard Using R Flexdashboard.</b>	USJ, Sri Lanka
2021	<b>COVID-19 Impact on India: Explanatory data analysis using R-Markdown.</b>	USJ, Sri Lanka
Apr 2021 May 2021	<b>Computer Graphics Project: Enhanced Car with Background using OpenGL.</b>	USJ, Sri Lanka
Dec 2019 Jan 2020	<b>Ultimate Tic Tac Toe Game Developed Using Java.</b>	USJ, Sri Lanka

## Certifications

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July 2021	<b>IBM Data Science (Specialization)</b>	IBM
July 2019	<b>Certificate in Business Accounting</b>	CIMA
March 2018	<b>Certificate in Software Development in Java</b>	NIBM

## Professional Affiliations

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Active	<b>Student Member</b> , The Operational Research Society (The OR Society: Credential ID: 110842)	UK
Active	<b>Student Member</b> , International Institute of Forecasters	USA
Active	<b>Reviewer</b> , The Operational Research Society (The OR Society)	UK
Active	<b>Member</b> , Women in Data Science	Global
2024	<b>Member</b> , R-Ladies Colombo	Sri Lanka

## Organizations & Volunteering

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<b>Social Media and Communications Coordinator</b> Data Lab for Social Good (DL4SG), Cardiff Business School	<b>Cardiff, UK</b> Oct 2024 – Present
<ul style="list-style-type: none"><li>. Managing the LinkedIn page and mailing list for DL4SG.</li><li>. Designing content, posting updates, and coordinating communication efforts.</li></ul>	

**Editor**

Statistics Society, University of Sri Jayewardenepura

**Sri Jayewardenepura, Sri Lanka**

Sep 2022 – Jul 2023

- . Managed and edited content for the society's publications and communications.

**Club Service Director**

Rotaract Club of University Alumni

**Colombo, Sri Lanka**

Jun 2022 – Jun 2023

- . Promoted "Fellowship through Service" and coordinated events and fundraising.
- . Reported activities at district events and ensured goal alignment.

**Member**

Leo Club of Godigamuwa

**Godigamuwa, Sri Lanka**

Nov 2021 – Sep 2024

- . Actively involved in community service projects organized by the club.

**Committee Member**

Society of Computer Science, University of Sri Jayewardenepura

**Sri Jayewardenepura, Sri Lanka**

Sep 2020 – Nov 2021

- . Contributed to organizing events and workshops for the society.

**Member**

Rotaract Club of University of Sri Jayewardenepura

**Sri Jayewardenepura, Sri Lanka**

Feb 2019 – Dec 2022

- . Project Chairperson for A Memorable December 2020 (Virtual Open Mic Session and PR Campaign, Dec 2020) and Paduru Party 2020 (Feb 2020).
- . Recognized for outstanding contributions with an award for successful project execution.

**Skills & Expertise**

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<b>Expertise:</b>	Forecasting and Prediction, Data Science, Machine Learning, Statistical Analysis and Visualization, Time Series, Supply Chain Optimization, OOP, Multi-processing, Digital Content Strategy, Health AI, AWS (Cloud Computing)
<b>Programming:</b>	Python, R, SQL, JavaScript
<b>Version Control:</b>	Git, GitHub
<b>Reporting:</b>	Quarto, Overleaf, Latex, Shiny, Tableau
<b>Creative Design:</b>	Canva, PowerPoint
<b>Interpersonal Skills:</b>	Communication, Problem-solving, Attention to detail, Teamwork, Leadership, Adaptability
<b>Languages:</b>	English (Fluent), Sinhala (Native)

**Referees**

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**Prof. Bahman Rostami-Tabar**

Director,  
Data Lab for Social Good Research Group,  
Cardiff Business School, Cardiff University,  
3 Colum Drive, Cardiff, CF10 3EU  
Mobile: +44 (0)29 2087 0723  
Email: rostami-tabarb@cardiff.ac.uk

**Assoc. Prof. Thanos E Goltos**

Senior Lecturer (Associate Professor)  
in Management Science,  
Cardiff Business School, Cardiff University,  
3 Colum Drive, Cardiff, CF10 3EU  
Mobile: +44 (0)29 2087 9325  
Email: goltsoa@cardiff.ac.uk