



Samrithaa Jeevaratnam

Artificial Intelligence & Data Science - Undergraduate



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Linkedin



Github

PERSONAL STATEMENT

A trilingual data science and AI enthusiast eager to utilize skills in an internship, with a passion for innovation and societal impact, aiming to contribute by delivering solutions that enhance user experiences.

PROJECTS

1.HCHO Insight: Analyzing Air Quality & Climate in Sri Lanka - Ongoing

Engaged in a data-driven project using advanced techniques to analyze formaldehyde (HCHO) data in Sri Lanka for air quality and climate insights. Leveraging technical proficiency to interpret patterns, identify sources, and develop predictive algorithms, utilizing Sentinel-5P satellite observations for environmental sustainability and public health initiatives.

2.Acci Tracker: A Road Accident Prediction App

As part of the accident prediction app team, the primary focus was on refining data quality, engineering features, and fine-tuning models for accurate accident severity prediction using machine learning techniques such as Random Forest, Logistic Regression.

3.Predicting Income Using Census Data

Currently working on a classification project using census data to predict income. Implementing Naïve Bayes and Random Forest models with optimal dataset preparation and evaluation metrics comparison. Utilizing Python libraries like scikit-learn for model implementation and analysis.

4.MANS Fitness Web Application

Designed the Product and About Us User interfaces (UIs) for the fitness E-commerce website. Implemented front- end functionality using HTML, CSS, and JavaScript. Integrated XML for data management, enhancing user experience.

5.Rally Championship Management System

Created a JavaFX software individually to manage rally championships comprehensively. The application dynamically generates race dates and locations while efficiently organizing detailed driver information and race- specific data, ensuring seamless championship management.

6.SCAMS Club Membership Management System

Led the design and implementation of core features within the school activity club management system. Utilized JavaFX to craft the user interface (UI) and functionality for student member login and signup. Integrated a view table for enhanced interaction and data flow within the system.

SKILLS & EXPERTISE

Technical Proficiencies

- HTML, CSS, JavaScript, XML
- Java, JavaFX
- Python, R
- Py torch, Tensor Flow
- SQL, Power BI
- Git and GitHub
- AWS Cloud

Soft Skills

- Critical Thinker
- Leadership
- Teamwork
- Problem-solving skills
- Coordination

EDUCATION

2022 - Present

Currently reading the degree in BSc (Hons) Artificial Intelligence & Data Science at IIT affiliated with Robert Gordon University, Aberdeen, Scotland.

Modules completed in Year 02

Artificial Intelligence
Advanced Mathematics for Data Science
Data Science Group Project
Data Engineering
Machine Learning
Professional Development
Simulation and Modelling Techniques
Object Oriented Development

Modules completed in Year 01

Computer System Fundamentals
Computational Mathematics
Data Structures and Algorithms for Artificial Intelligence
Database System
English Communication Skills
Programming Fundamentals
Web Technology

2020 - 2022

Cambridge GCE Advanced Level (Royal Institute International School) Subjects - Business, Computer Science, Economics, Mathematics -A, 2B and E.

2019-2020

Cambridge GCE Ordinary Level (Royal Institute International School) Subjects - Business Studies, Computer Science, Economics, Accounting, English, Mathematics, Environmental Management - 2A*, 3A, 2B.

ENRICHMENT ACITIVITIES

CLUBS & SOCIETIES

- Member of the Rotaract Club of IIT.
- Member of the Leo Club of IIT.
- Volunteer at Stagecraft-IIT 2023.
- Member of Interact Club of Royal Institute 2021/2022.
- Senior Prefect of Royal Institute International School - 2018-2020.
- Junior Prefect of Royal Institute International School - 2017-2018.

CERTIFICATES & AWARDS

- Completed grade 02 in CALSDA with Honors - 2016.
- The Sri Lankan Festival For Performing Arts 2011 - All Island Winner.
- Received Distinction & Commendation in Sri Lankan Festival For Performing Arts - 2009, 2010, 2011 and 2012.

HOBBIES & INTERESTS

Sports

- Basketball
- Swimming

Other Interests

- Fashion Designing
- Social Interactor

REFERENCE

Mr. Nipuna Senanayake

Senior lecturer of Informatics Institute of Technology.

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Mr. Divakar Gouthaman Rajaratnam

IT mentor & tutor.

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