Sinali Dodamgaslanda

Data Science Undergraduate

ABOUT ME

Friendly, organized, and collaborative, I thrive in teamwork-driven environments. With strong listening and communication skills, dedication, and enthusiasm, I'm eager to contribute positively to any project.

MICROSOFT CERTIFICATION

Microsoft Certified – AI 900 (Azure AI Fundamentals)

EXTRA - CURRICULAR ACTIVITES

- School Prefect
- Student Representative of the batch at university
- Secretary - AI and Data Science Club, KDU

RESULTS

-Adventist International School

- IGCSE - June 2019

Accounting	A*
Business	A
English Language	B
Economics	A
Human Biology	B
ICT	A*
Mathematics	A*

- IAL - October 2021

Accounting	A
Business	B
Economics	A
Mathematics	B

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EDUCATION

BSc. in Applied Data Science Communications
General Sir John Kotelawala Defence University
2022 - 2024

Adventist International School
2005 - 2021

SKILLS

- Word
- Excel
- Access
- Stastics
- SQL
- Python
- Power Bi
- Power Platfrom

LANGUAGES

- English
- Sinhala

-Bsc. Applied Data Science Communications

- **Semester One**

Fundamentals of Mathematics	A+
Fundamentals of Programming with R	A
Business Economics	A
Effective Presentation Skills	A-
SGPA	3.9250

- **Semester Two**

Fundamentals of Statistics	A+
SQL for Data Science	A-
Essence of Management and Organizational Behavior	A-
Citizen Science and Communications	A-
SGPA	3.7750

- **Semester Three**

Fundamentals of Data Mining	A
Programming with Python	A
Accounting and Finance	A
Effective Writing Skills	A+
SGPA	4.000

- **Semester Four - Not Released**
- **Semester Five - Not Released**

PROJECTS AND RESERACHES

Systematic Literature Review on Implementing Electronic Health Records with the aid of IOT

In the first year of my degree program, I undertook a systematic literature review centered on the implementation of Electronic Health Records (EHR) facilitated by the Internet of Things (IoT). The research question guiding this review was: 'How can Electronic Medical Records (EMR) be used to aid healthcare?' Through this systematic literature review, I analyzed surveys conducted on EMR to assess their usefulness in healthcare settings."

Dashboard visualization for SAARC SDG Evaluator

Analysis was conducted utilizing SQL and Power BI software to evaluate the Sustainable Development Goals (SDG) Evaluator within the South Asian Association for Regional Cooperation (SAARC). The analysis culminated in the development of a comprehensive dashboard to visualize the findings.

Analyzing Breast Cancer using Association Rule Mining

Association Rule Mining techniques were applied to analyze data related to breast cancer. By utilizing this method, we aimed to evaluate the factors associated with the likelihood of an individual developing breast cancer.

Advanced Power BI Reporting for Data Analysts Using Scottish Energy Performance Certificate Data

The Scottish Energy Performance Certificate (EPC) data between 2016 and 2022 was analyzed and visualized using SQL Server and Power Bi to provide important insights into the energy performance patterns throughout Scotland.

Greater Manchester Road Safety Analyzer

Road Safety dataset was used to create a Greater Manchester Road Safety Analyzer using SQL Server Databases and Power BI Desktop to analyze historical fatal and serious roadside accidents in the Greater Manchester area.

Greater Manchester Higher Education Analyzer

The Greater Manchester Higher Education Analyzer Dashboard was constructed to be informative, and insightful and offer valuable perspectives on the outcomes of the graduates studied from Higher Education institutes located in Greater Manchester.

A Visual Analysis on Examining Public Views and Attitudes Regarding Substance Use and Its Effect on Health

A research paper was authored on the subject of "A Visual Analysis on Examining Public Views and Attitudes Regarding Substance Use and Its Effect on Health".

Cardiogardian: Your Personal Heart Health Guardian

Using machine learning algorithms, we sought to predict the probability of heart diseases by analyzing a wide array of health indicators and patient data. Our approach involved developing a web application using the Angular framework to engage users, with additional support from frameworks like Bootstrap for enhanced user experience. We trained our machine learning model using an open-source dataset accessible on Kaggle. To facilitate user registrations and predictions, we implemented REST APIs using Node.js and Flask.

Predictive Analysis of Housing Unit Occupancy Status in New York City Using Machine Learning Algorithms

This research assesses if machine learning algorithms can accurately predict housing unit occupancy status in NYC based on factors like borough, building features, ownership, and tenure. The study aims to aid real estate, urban planning, and housing policy decisions.

Exploring Formula One Race Performance Over The Top Constructors

A Power Bi dashboard was made to explore Formula One race performance over the top constructors can provide valuable insights into the competitive landscape of the sport.

R E F E R E N C E S

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