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TECHNICAL SKILLS

Python	.NET
R	AWS
Java	MLOps (Docker)
HTML / CSS / JS	Apache Spark
SQL	Flask (Rest API)
Machine Learning	NLP
TensorFlow	Deep Learning
NumPy	Agile
Pandas	LLM
OOP	(Google palm)

SOFT SKILLS

- Adaptability
- Communication skills
- Teamwork
- Critical Thinking
- Time Management
- Problem Solving
- Leadership Skills
 - Leader in Data Science group project

INUPA BANDARA

UNDERGRADUATE

Ambitious individual with strong organizational and multitasking skills, as well as an aptitude for technology. Robust development background, curious about AI and Machine Learning. Proficient in applying programming languages and machine learning models to address real-world challenges. Eager to learn new technologies and apply the skills to challenging and impactful projects.

EDUCATION

BSc (Hons) in Artificial Intelligence and Data Science 2023 - PRESENT
Informatics Institute of Technology affiliated to Robert Gordon University

Completed 2 years as an undergraduate student. I have experience in working with various programming languages and developing meaningful solutions using different development frameworks and AI and Machine Learning techniques. In my second year I have done research on road safety and developed a solution for ensuring road safety using development techniques, Machine Learning and data modeling. My research is submitted and ongoing in IEEE (iPurse) international research conference university of Peradeniya.

PROJECTS

Data Science Group Project on Accident prediction System (2023 - 2024)
Accident Prediction Model, harnessing data and predictive analytics to enhance safety measures using Machine Learning models. (Regression, Classification and unsupervised machine learning models used for accident hot zone detection). Models predicts accident count, hot zones, road types and severity using statistical data modeling. (Flask / HTML / CSS / JS / Google Firebase/ ML)

School Activity Club Management System (2024) (SCAMS)

Developed a GUI application for an Internet Cafe so that people without personal computer can use the facilitates. In this solution user can add / delete / update / save / select dealers randomly and do Realtime shopping by engaging with this application Tech Stack – Java & JavaFx / SLQ / OOP/ DSA

EXTRA CURRICULAR

- Leader - Western Brass Band 2018 - 2021
- Member - Data Analytics Society (IIT)
- Member - School Cricket team (U 13 to U 17)
- Member - School Swimming Club (U 13 to U 17)

AWARDS AND CERTIFICATIONS

- First place - All Island western music competition (2013 / 2015 /2017/ 2019)
- Artificial Intelligence Foundations: Neural Networks (LinkedIn Learning)
- Python for Engineers and Scientists (LinkedIn Learning)

REFERENCES

Mr Prashan Rathnayaka.
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Research Paper on Ensuring Road Safety (2024)

A research paper on accident count that can happen in a certain period of time in a certain day of the week using statistical data modeling. Submitted in IEEE (iPurse) international research conference university of Peradeniya. (Research and development techniques used.)

Mental Health Problem Analysis and Prediction (2024)

Mental health problem analysis using cutting edge machine learning approaches. Used various data cleaning methods and EDA and visualizations for making meaningful decisions. ETL pipeline and data engineering approaches used for data preprocessing). Tech Stack - Apache Spark, Machine Learning, EDA, Python

Image classification project for reject posts that violate ad policies (ongoing)

Rejecting ads that violate add policies using Image classification. People can get idea on adds that they are posting without wasting time. CNN based solution using VGG16, VGG19, RESNET50 for image classification.

Income Prediction using Census Income data in USA (2024)

Income prediction using machine learning approaches. Classification models such as Random Forest and Naive Bayes are used for making the prediction models. Data Engineering skills such ad ETL is used for data preprocessing using Apache Spark.

Time Series Forecasting of HCHO gas in Sri Lanka (2024)

Analyzing the HCHO level in 7 cities in Sri Lanka. Analyzing the season variants and the HCHO level during pandemic and non-pandemic periods. A future prediction of the HCHO levels in those cities using ARIMA, LSTM and SARIMAX modes. Tech Stack - Apache Spark, AWS, Machine Learning, Power BI, Deep learning

Spam Detection System using NLP (2024)

Spam detection system for classifying spam emails and make WorkLife easier without spam emails. Tech Stack – NLP, Machine learning

Web Application for a Movie Recommendation System (2023)

Developed a website to recommend movies to users on their preferences using HTML, CSS and JavaScript.