Diluksha Perera

Associate Data Engineer | MLSA - BETA | Speaker | Event Organizer

Highly motivated Data/AI enthusiast with a solid foundation in visualization, machine learning, and Python. Excited to apply my knowledge and gain real-world experience. Strong work ethic and a passion for tackling complex problems through data/AI engineering.

[Portfolio](#)

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dilukshakaushal@gmail.com

Borupana, Ratmalana

LANGUAGE

English | Sinhala

ACHIEVEMENTS

- Google Certified Data Analyst
- Microsoft Azure Data Fundamentals
- Microsoft Azure AI Fundamentals
- Microsoft Learn Student Ambassador - BETA
- Microsoft Azure Resposible AI Workshop - Coach
- Microsoft Copilot for Security Ninja Training
- Microsoft PowerUp Program Graduate

SKILLS

- Machine Learning
- Deep Learning
- Python
- Power Platform
- Azure Data Factory
- Azure Synapse
- Leadership
- Problem Solving
- Team Work
- Organizing

EXPERIENCE

Data Engineer - Intern/ Associate
Bistec Global Services   2024 - Present

Worked with AI & data technologies to design and implement data-driven solutions by collaborating with cross-functional teams.

Microsoft Learn Student Ambassador - BETA
Microsoft - Sri Lanka   2023 - Present

Fostering a community and collaboration while leveraging Microsoft Technologies with fellow students

President - DatAInspire
Kotelawala Defence University   2023 - 2024

Leading a community that passionate about AI and Data Science while organizing and nurturing.

Graphic Designer - ERIC
Kotelawala Defence University   2022 - 2024

Worked as a precedent team member while promoting, designing and communicating with team members.

EDUCATION

UB Wanninayaka National College
Secondary Education   2006-2019

Excelled during secondary studies at school, demonstrating strong leadership skills and motivated approach to learning

General Sir John Kotelawala Defence University
Applied Data Science Communication   2022- Present

Pursuing studies at the university, where I'm actively engaged in learning and contributing to the academic community.

PROJECTS

Undergraduate -----

1. Sales Analysis & Visualization - [Link](#)

Utilized Python for in-depth sales data analysis and visualization. Created interactive Power BI reports that revealed actionable insights, leading to improved decision-making for sales strategies.

2. Market Prediction for Festival Season - [Link](#)

Secured 3rd place in a competition for predicting bakery product market demand during the festival season. Developed a predictive analysis model using a dataset provided by the Octave company. This project shows my expertise in data analysis and model building in real-life use cases.

3. Flight Punctuality Prediction using ANN - [Link](#)

Developed a machine learning model to predict flight punctuality using an Artificial Neural Network (ANN) implemented with TensorFlow and Keras libraries. Created informative and interactive visualizations using Plotly to effectively communicate the model's performance and insights.

4. Greater Manchester Higher Education Analyzer - [Link](#)

Collaborated in a team to analyze data on education sector using Azure Data Studio for data manipulation and Power BI for interactive visualizations. The project culminated in the creation of a comprehensive video guide, providing valuable insights in the educational landscape.

5. UFC Players Performance Analysis - [Link](#)

Performed a comprehensive analysis of UFC player performance data using R and Python. This included data cleansing, transformation, and K-means clustering to identify distinct player segments. I then designed an informative Power BI report and a video to deliver actionable insights for stakeholders (including players and judges).

Associate Data Engineer -----

6. Predicting Customer Satisfaction with AI and Real-Time Insights

Predicting customer satisfaction by utilizing a predictive model built on previously classified labels. It integrates data from ServiceNow through APIs, balances an imbalanced dataset, and fine-tunes a Hugging Face LLM for production. Used Azure Synapse pipelines for real-time predictions and visualizes results in an interactive Power BI report, providing valuable insights into customer sentiment.
Tech Stack : *ServiceNow API, Azure Synapse Studio, Hugging Face, Power BI*

7. Automated CSV Generation for AIA Insurance

Used Azure Data Factory pipeline to automate the generation of CSV files for AIA Insurance. The solution utilizes SQL stored procedures for data filtering, implements data flows in Azure Data Factory, and stores the final CSV file in an Azure Storage Account for easy access and use.
Tech Stack : *Azure Data Factory, Microsoft SQL Server*

8. AI-Powered Blog Generation for Marketing - [Link](#)

Build to replace traditional marketing agency processes by using AI agents to generate SEO-friendly blog posts. Used open-source APIs and AI frameworks to automate content creation, enabling efficient and cutting-edge marketing solutions for businesses.
Tech Stack : *Open-source LLMs, Python, HuggingFace Space*

PUBLICATIONS

Automate the Process of Sending Bulk Emails

Unlock the Power of ML models inside the Power BI

Empowering Data Engineers and Scientists: Azure Synapse PySpark Notebooks in Action!

Introduction to Azure Synapse for Data Roles in the Data Field

CONNECT