

Nimesh Wijesuriya

Machine Learning Engineer | Data Scientist | Data Analyst

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GitHub



EDUCATION

- **Bachelor of Science with Statistics, Computer Science, Applied Mathematics**
University of Colombo
2020 - 2023
- **G.C.E. Advanced Level 2018**
Central College Kuliyaipitiya
Combined Mathematics: B Chemistry: B Physics: C
- **G.C.E. Ordinary Level 2014**
S.W.R.D. Bandaranayake National College Panduwasnuwara
Achieved 8 As and 1 Cs

WORK EXPERIENCE

Trainee Data Scientist

DataDisca (Pvt) Limited, Melbourne

September 2023 - November 2023

- Developed text analysis solutions using the Transformers Library, including zero-shot classification, text generation, and named entity recognition. Built a sentiment analysis model achieving over 86% testing accuracy.
- Utilized GPT 3.5 API for large language model (LLM) tasks.
- Created visualizations and interactive maps with Plotly, Seaborn, Matplotlib, and Folium.
- Conducted data exploration with D-Tale and managed version control using Git.

Intern Data Scientist, Group Business Operations

Dialog Axiata

November 2023 - July 2024

- Designed a machine learning model to predict Non-Performing Loans for Dialog Lesipay, improving prediction accuracy by around 70%.
- Analyzed key features such as ARPU, data usage, refill counts, and voice call usage to enhance ML model accuracy.
- Built a rule-based Python credit scoring model to rank over 7,000 Lesipay loan Completed customers based on their repayment behavior.
- Performed analytics using SQL queries to extract actionable insights from the Snowflake for Dialog Lesipay's business unit.
- Assisted with campaign launching by selecting over 3.5 million eligible customer base and resolving Lesipay customer's issues.

TECHNICAL SKILLS

- **Programming Languages:** Python, SQL, Java
- **Machine Learning:** Scikit-Learn, TensorFlow, XGBoost, MLflow
- **Deep Learning:** TensorFlow, Keras
- **Data Analysis:** NumPy, Pandas, Microsoft Excel
- **Data Visualization:** Tableau, Power BI, Seaborn, Plotly
- **Big Data Technologies:** Snowflake, PySpark
- **Cloud Computing:** AWS, AWS SageMaker, Docker
- **Natural Language Processing:** Hugging Face Transformers, LangChain, ChatGPT API
- **Version Control:** GitHub

SOFT SKILLS

- Communication
- Analytical
- Teamwork
- Quick Learning
- Creativity

PROJECTS

1. Telco Customer Churn Prediction Model | [GitHub Repository](#)

- Executed a predictive model for customer churn using XGBoost with 79% Prediction Accuracy.
- Created training and prediction pipelines, and Enhanced a Flask web app for user interaction.
- Tracked model performance with MLflow and managed CI/CD pipelines with GitHub Actions.
- Deployed the solution on AWS using EC2, ECR, Docker, and configured a self-hosted runner for continuous integration.

Technologies: Python, MLflow, Flask, GitHub Actions, Docker, AWS EC2, AWS ECR, html ,CSS

2. House Price Prediction ML Model | [GitHub Repository](#)

- Launched a house price prediction model using scikit-learn with 76% Model Accuracy.
- Implemented train, prediction pipelines, a Flask web app, and containerized the application with Docker.
- Designed CI/CD with GitHub Actions and AWS CodePipeline, deploying to AWS Elastic Beanstalk.

Technologies: scikit-learn, SimpleImputer, AWS CodePipeline, AWS Elastic Beanstalk

3. Loan Status Prediction ML Project using AWS SageMaker | [GitHub Repository](#)

- Established a loan status prediction model using AWS SageMaker and XGBoost.
- Processed data by splitting it into training and test sets, stored in S3, and used boto3 for AWS service management.
- Deployed the model as a SageMaker endpoint for predictions.

Technologies: AWS SageMaker, S3, boto3, pandas

4. eCommerce YTD Sales Analysis Tableau Dashboard | [GitHub Repository](#)

- Generated a Tableau dashboard to visualize KPIs like sales, profit, and order quantity, using a dataset of over 50,000 entries.
- Included visualizations such as a pie chart for regional market share, a bar chart for category-wise sales analysis, and a line chart for customer acquisition trends, comparing YTD and PYTD performance.

Technologies: Tableau, Data Visualization, eCommerce Analytics

5. Customer Personality Analysis Tableau Dashboard | [GitHub Repository](#)

- Constructed Tableau dashboard to analyze customer behavior and preferences using supermarket sales data.
- Focused on demographics, purchase history, and campaign engagement metrics to provide actionable insights for optimizing product offerings and marketing strategies.

Technologies: Tableau, Data Visualization, Customer Analytics

6. Retail Company Sales Analysis Power BI Dashboard | [GitHub Repository](#)

- Generated a Power BI dashboard to analyze sales performance across outlets and item types.
- Utilized data visualizations, filters, and KPI indicators to provide actionable business insights.

Technologies: Power BI, Data Visualization, Sales Analytics

LICENSES & CERTIFICATIONS

• Machine Learning Specialization

DeepLearning.AI and Stanford University, Coursera
Covered supervised and unsupervised learning concepts.

• SQL for Data Science

University of California, Davis, Coursera
Enhanced skills in data manipulation and analysis.

• Introduction to Data Engineering

IBM, Coursera
Gained foundational knowledge in data engineering.

NON RELATIVE REFERENCE

- MR. Sandesh Kamalanathan
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Dialog Finance PLC

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