

Rivindu Ashinsa

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Summery

[Rivindu Ashinsa](#) [🔗](#), Data science professional with experience in machine learning, deep learning, and data analysis. Skilled in creating datasets, participating in Kaggle competitions, and solving problems using Python. Experienced in optimizing models and delivering effective solutions. Focused on applying data insights to practical challenges.

Education

University of Westminster Sept 2024 – May 2028
BSc in Computer Science

- **Areas:** Computer architecture, Data Structures and Algorithms, Database management, Data Science and Machine Learning

Informatics Institute of Technology Sept 2023 – May 2024
Foundation Certificate in Higher Education

- **Areas:** Project management, Computer programming, Database management, Communication

Professional Qualifications

- **DataCamp:** [Introduction to Large Language Models \(LLMs\)](#) [🔗](#) - Fundamentals of LLMs, their architecture, and applications in NLP. (On-going)
- **Google:** [Machine Learning Crash Course](#) [🔗](#) - Hands-on introduction to machine learning, covering neural networks and model training.
- **Microsoft Learn Badges:**
 - [Fundamentals of Machine Learning](#) [🔗](#).
 - [Fundamental AI Concepts](#) [🔗](#).
- **FreeCodeCamp** [🔗](#): [Data Analysis Certificate](#) [🔗](#), Sea Level Predictor Project, Demographic Data Analyzer, Medical Data Visualizer.
- **CognitiveClass.ai (IBM verified):** [Data Analysis with Python](#) [🔗](#), [Python for Data Science](#) [🔗](#).
- **Simplelearn:** [Intro to AI](#) [🔗](#) - Gained foundational knowledge of AI concepts, including machine learning and neural networks.
- **Kaggle** [🔗](#): Data Cleaning, Pandas, Data Visualization, Intro to Machine Learning, Intermediate Machine Learning, Deep Learning, Computer Vision, SQL, Python Basic, and SQL Basic.
- **LinkedIn Learning:** [Data Science Fundamentals](#), [MLOps Essentials](#), [Applied Machine Learning](#) [🔗](#).
- **Google's Machine Learning Crash Course:** Linear Regression, Logistic Regression, Numerical Data badges.

Experience

Competitor | Dataset Creator | Discussion Initiator | Coder Sep 2023 – Present
Kaggle

- Participated in Kaggle competitions like Handwritten Digits Recognition and Spaceship Titanic, applying machine learning techniques to real-world datasets and achieving top 25% rankings.
- Worked on diverse projects, including NLP with Disaster Tweets and Customer Churn Prediction, leveraging

algorithms such as decision trees, random forests, and neural networks.

- Gained expertise in data preprocessing, feature engineering, and model evaluation, optimizing performance and accuracy.
- Engaged with the Kaggle community by sharing insights, contributing to discussions, and creating unique datasets for analysis and research.

Projects

SQL-Database Management System

[rivindu-ashinsa/repo](#) 

- Developed a SQL Database Management System (DBMS) with Python using Object-Oriented Programming (OOP) to provide a modular and maintainable design with a user-friendly interface for database operations.
- Implemented essential SQL operations such as creating databases/tables, and inserting, updating, and deleting data using custom SQL queries.
- Integrated MariaDB for database interaction and utilized the Tabulate library to display query results in a clean, tabular format.
- Included error handling for robustness and system animations to enhance the user experience.

Demographic Data Analyzer

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- Utilized Python libraries such as Pandas and NumPy for data processing and Matplotlib and Seaborn for creating insightful visualizations.
- Implemented data cleaning, descriptive statistics, and subgroup analysis to explore relationships between variables like age, income, and education.
- Designed visualizations such as bar charts, heatmaps, and histograms to effectively communicate findings and support data-driven decision-making.

Medical Data Visualizer

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- Built a tool to visualize healthcare data with interactive and clear visualizations.
- Used Python libraries such as Pandas, Matplotlib, Seaborn, and Plotly for data handling and visualization.
- Allowed users to explore medical data with filters and charts to find patterns and relationships.

Dialogflow ChatBot with NLP

On-going

- Developed a chatbot using Dialogflow and Natural Language Processing (NLP) for accurate intent recognition and context-based replies.
- Added features like multi-channel support and dynamic entity recognition for personalized user interactions.
- Designed to handle various queries efficiently, making it suitable for tasks like customer support and automation.

Customer Churn Prediction

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- Built a machine learning model to predict customer churn, helping businesses identify at-risk customers and improve retention strategies.
- Applied data preprocessing techniques, including cleaning and feature engineering, to enhance model accuracy and reliability.
- Visualized key insights using Matplotlib and Seaborn to identify patterns in customer behavior and support data-driven decision-making.

Skills

Technical Skills: Data Analysis, Machine Learning, Deep Learning, Data Visualization, Data Cleaning

Programming Skills: Python, SQL, R, Java

Soft Skills: Problem Solving, Communication, Project Management, Team Collaboration