BRIGIT MELBRIDE

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A motivated and innovative Data Science undergraduate with a passion for solving real-world problems using data-driven approaches. Experienced in leveraging Python, SQL, and machine learning to build predictive models and create insightful visualizations. Enthusiastic about applying analytical skills to diverse challenges, including customer churn prediction and diabetes risk prediction, while driving impactful solutions through data science. Core competencies include:

Proficiency in Python and SQL.
Effective translation of complex data into actionable insights.
Agile in adapting to new technologies and ambiguous scenarios
Strong communicator, bridging gaps between technical and business teams
Expertise in applying data science techniques across various domains and integrating coding best practices.
Innovative in tackling complex data challenges, offering data-driven solutions, and automating processes to boost efficiency and effectiveness.

EDUCATION

Meru University of Science and Technology – (*Graduation expected 10/2026*)
BACHELOR OF SCIENCE IN DATA SCIENCE

RELEVANT COURSEWORK

**Statistics for Data Science ▪ Programming for Data Science (Python/R)
Machine Learning ▪ Big Data Analytics ▪ Data Visualization
Data Mining ▪ Database Management Systems**

TECHNICAL SKILLS

Programming Languages (Python, R) ▪ Data Manipulation and Analysis (Pandas, NumPy)
Data Visualization (Matplotlib, Seaborn, Power BI) ▪ Machine Learning and Algorithms
▪SQL and Database Management ▪Version Control (Git) ▪ Basic Understanding of Cloud Platforms (Azure) ▪ Web Development(Backend-Django)

RELEVANT COURSES COMPLETED

Data Science Expert with Python and Django, Simplilearn, 2024
Intro to Programming, Intro to Machine learning, Pandas, Kaggle, 2024
Basic Digital Productivity Skills Training, ICT Authority, 2023
AI basics: Overview of AI, Huawei Talent, 2024

VOLUNTEERING

WiDS (Women in Data Science) Campus Ambassador, Meru University of Science and Technology   2025 – Present

Lead initiatives to promote women's participation in data science by organizing events, hosting workshops, and mentoring students. Foster a collaborative learning environment by connecting aspiring data scientists with industry experts and resources.

X-Space CO-HOST, Everything Data   **2025 - present**

Co-host and facilitate discussions on emerging data science trends, ensuring smooth session flow and audience engagement. Assist in moderating conversations, encourage community participation through Q&A sessions, and promote discussions via social media outreach

PROJECTS

Customer Churn Prediction
developed a machine learning model to predict customer churn for a subscription-based service using Python, scikit-learn, and logistic regression. The model achieved an accuracy of 81%, enabling the business to identify at-risk customers and improve retention strategies.

Personalized Coding Goals and Progress Tracker Model
designed a machine learning model to help users set, track, and predict progress toward their coding goals. The model predicts the likelihood of goal completion based on user inputs such as target percentage, deadline, and historical performance data, providing insights into progress and performance optimization.

Movie Analysis Dashboard
Built an interactive dashboard using PowerBI and python to visualize trends in movie data, including revenue, ratings, and genres. The dashboard provided valuable insights into the entertainment industry for business stakeholders.

Community Crisis Management Platform
Participated in a hackathon where I was part of developing a platform using Django for managing emergency alerts, resources, and engage in community discussions.

REFEREES

1. Dr. Antony Irungu
    Data Science Course Advisor, Meru University of Science and Technology
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