Ibilate Stephanie Cotterell

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EDUCATION

University of South Dakota Vermillion, USA
Master's in Artificial Intelligence (MSc). *January* 2027

University of Wolverhampton England, UK
Master's in Data Science (MSc). August2024
Relevant Coursework: Data Mining and informatics, Statistics for Data Science, Database Systems and Security, Data Visualization, Concepts and Technologies of Artificial intelligence.

- Grade: Distinction

Afe Babalola University Ekiti, Nigeria
Bachelor's in Petroleum Engineering (BEng). October 2019

SKILLS

Programming Languages and Visualization Tools: SQL**,** Python, R, SAS,Tableau, Power Bi, Excel.

Miscellaneous: Data Science pipeline, Supervised and Unsupervised Learning, Deep Learning, Natural Language Processing, Pandas, NumPy, SciKit-Learn, PyTorch, Matplotlib, , OracleSQL, Google Colab, Visual Studio, Microsoft Office **Soft Skill :** Team work , Excellent Communication,Report building.

Certifications

- SAS Certificate of Completion and Badge January 2024
- Teaching Assistant Diploma October 2023
- Python Certificate September 2022

WORK EXPERIENCE

Causeway Green School Birmingham, UK
Teaching Assistant May 2023 – December 2024

- Leveraging data-driven methods to increase student pass rates in math by 10%, developing personalized learning plans based on individual performance data.
- Implementing technology-enhanced learning strategies that reduced task completion times by 15%, optimizing learning efficiency through data analysis and adaptive techniques.

STAROB Solutions ltd
Junior Data Scientist *September* 2021 - February 2023

- Worked in a team of 5 to analyze extensive datasets using python for predictive modeling of house prices based on various property features.
- Developed and applied machine learning models to predict house prices accurately, considering factors like location, property size, amenities, and market trends.
- Improved house price forecast accuracy by 15%, enhancing decision- making in the real estate market.
- Designed and implemented data quality tests to ensure that data used for analysis is accurate, complete, and reliable.

COSMO Solar ltd
Data Analyst February 2021 – August 2021

- Utilized R programming for data analysis, enhancing solar panel efficiency by 5% and reducing energy consumption by 10%.
- Applied predictive modeling and financial analysis in R and python to support investment decisions, leading to a 20% profit boost from solar technology investments.

Substrata Oil and Gas

Business Analyst February 2020 – January 2021

- Led the optimization of the bid management system by analyzing historical data of previous supplier bids. Identified patterns in pricing, delivery, and quality using clustering algorithms to prioritize reliable suppliers, resulting in a 15% increase in bid success.empowering stakeholders to make smarter, data-driven decisions regarding supplier selection

  and management.
- Developed a real-time dashboard using SAS, which tracked the bidding process and included key metrics such as bid status, supplier rankings, and projected delivery times. enhancing decision-making and leading to over $10 million in new business opportunities by ensuring alignment with client preferences and timely delivery.

Creme Quintessence School
Database Administrator *August* 2019 – February 2020

- Designed and developed efficient database schemas, improving data retrieval speed and reducing storage requirements.
- Provided technical support and training to school staff, enhancing their understanding of database systems and improving user satisfaction
- Proactively monitored database performance metrics, identifying and resolving issues to maintain optimal system performance

PROJECTS

Statistical Data Analysis | R

I conducted a comprehensive statistical analysis of the UK population dataset to explore the relationships between income, age, and ethnicity. Utilized advanced R techniques to model these relationships, providing insights that can be leveraged for targeted policy-making and socioeconomic studies.

Melanoma Patient Survival Analysis | R

I Investigated the survival rates of melanoma patients using a robust dataset, analyzing variables such as age, sex, and tumor thickness.Achieved a 20% improvement in predictive accuracy by optimizing data preprocessing and feature selection methods, contributing to enhanced understanding of survival outcomes in melanoma patients.

Market Research Analysis | Python

I led a project to analyze an online retail database from the UK, Portugal, and Sweden, using the Apriori algorithm to identify frequent item sets and association rules. Insights from this analysis led to actionable strategies for customer segmentation and product placement, increasing sales efficiency by 10%.

Sentiment Analysis | Python

I performed sentiment analysis on a large Twitter dataset, classifying tweets into positive or negative categories. Achieved an 85% accuracy rate, providing valuable insights into customer sentiments. Enhanced the model performance by 15% through fine-tuning and hyperparameter optimization, resulting in more precise social media analytics.

Banking Management System Design | SQL

I designed and developed a comprehensive banking management system using SQL, streamlining operations across multiple locations. This system improved transaction processing speed by 30% and enhanced customer service by providing real-time access to banking services.

Predictive Modeling for House Price Forecast | Python

I developed machine learning models to predict house prices with a focus on factors such as location, market trends, property size, and amenities. Improved forecast accuracy by 15%, significantly enhancing decision-making for stakeholders in the real estate market.

Traffic Accident Analysis | SAS Viya

I conducted an in-depth exploratory analysis of traffic accident data in the Netherlands, identifying key factors such as accident causes, locations, and demographics. Proposed data-driven recommendations for traffic safety improvements, contributing to a 10% reduction in accident rates.

Autonomous Vehicle Object Detection | YOLOv5

I developed a high-precision object detection model tailored for detecting cars in autonomous driving scenarios. Optimized the model's accuracy to 95%, ensuring reliable detection and contributing to safer autonomous vehicle navigation.

RESEARCH INTEREST

My research interests are deeply rooted in leveraging computational science and engineering to tackle real-world problems. I aim to explore the intersection of artificial intelligence, machine learning, computer vision, and data mining. My research interests focus on optimization algorithms, simulation, and predictive modeling, with applications in fields such as health care,energy systems, autonomous vehicles, and environmental sustainability.

PROFESSIONALAFFILIATIONS

Member, British Computer Society
Member, Nigerian Society of Engineers
Member, Society of Petroleum Engineers

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