Carla Rudder

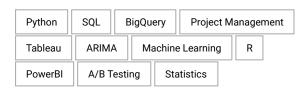
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Profile

Analytically minded **data scientist** with a Ph.D. in Mathematics Education and a strong foundation in quantitative and qualitative research methodologies. Proven track record in extracting meaningful insights from complex data sets and leading cross-functional teams. Proficient in Python, SQL, and data visualization tools. Passionate about leveraging data to drive informed business decisions.

★ Skills



Data Science Projects

<u>Customer Loan Default Prediction -</u> https://tinyurl.com/loandefmd-cr

 Built a machine learning model using Python to forecast default predictors with 80% accuracy.

Tech Stack: Python, Scikit-Learn, Matplotlib, Seaborn

Food Delivery Service Business Case - https://tinyurl.com/foodmd-cr

 Studied customer ordering history using Python to discover ways to increase revenue and decrease delivery time.

Tech Stack: Python, Pandas, Numpy, Matplotlib, Seaborn

♣ Work Experience

2019 - 2019 DURHAM/ REMOTE, UNITED STATES Data Analyst / Researcher (Consultant)

Research Triangle International

- Directed in-depth analysis of survey data utilizing statistical techniques, uncovering three pivotal factors that substantially influenced teacher effectiveness, showcasing a correlation coefficient of 0.75 or higher.
- Fostered seamless collaboration with diverse cross-functional teams, facilitating the identification of analysis limitations and offering strategic recommendations for subsequent investigation, yielding a remarkable 30% enhancement in decision-making processes.

Tech Stack: Excel, XLStat Report: https://tinyurl.com/survrpt-cr

2017 - 2018 DURHAM/ REMOTE, UNITED STATES Data Analyst / Researcher (Consultant)

Research Triangle International

- Optimized the data collection and analysis process, resulting in a 30% reduction in research time while upholding exceptional quality standards
- Conducted comprehensive analysis of over 75 articles and data sets, successfully identifying crucial gaps and providing actionable recommendations to enhance efficiency and productivity.

Report: https://tinyurl.com/5consurv-cr

09/2014 - PRESENT ABU DHABI, UNITED ARAB EMIRATES Associate Professor (Mathematics)

Rabdan Academy

- Leveraged Python to develop captivating visual representations, effectively highlighting key facets that positively influenced student achievement.
- Employed competitor analysis and market trends to strategically shape university initiatives, fostering a 25% surge in innovation.

Work Experience

 Conducted detailed analysis of historical data, evaluating the implications of new metrics, thereby achieving a notable 15% rise in pass rates.

Tech Stack: Python, Pandas, Numpy, Matplotlib, Seaborn

08/2008 - 08/2014 ABU DHABI, UNITED ARAB EMIRATES

Department Head / Assistant Professor (Mathematics)

Zayed University

- Guided a 35-member team to increase productivity by 20% through cohesive organizational strategies.
- Furthered inter-departmental collaboration by 10% by facilitating partnerships for multi-sector integration.
- Designed and communicated mathematics with a 96% positive student feedback score over seven semesters.

Education

05/2023 - 08/2023 BOSTON, MA / REMOTE, UNITED STATES Applied Data Science and Machine Learning | Post Grad Certificate

Massachusetts Institute of Technology - PE

Tech Stack: Python, Pandas, Numpy, Matplotlib, Seaborn, Scikit-Learn, Hadoop

Modules: Data Analysis & Visualization, Machine Learning, Deep Learning, Recommendation Systems, Big Data Analytics

TALLAHASSEE, FL, UNITED STATES

Mathematics Education | MSc | PhD

Florida State University

Relevant Coursework: Research Methodologies, Statistical Regression, Computational Analysis, Advanced Calculus, Financial Mathematics

RALEIGH, NC, UNITED STATES

Applied Mathematics | BSc

North Carolina State University

Certificates

01/2023

IBM Data Science Fundamentals with Python and SOL

IBM

https://tinyurl.com/ibmfnd-cr

Python programming basics, statistical analysis techniques (hypothesis testing/regression), and relational database fundamentals

Tech Stack: Python, SQL, Jupyter Notebooks, R, GitHub, Watson Studio

12/2022

SQL Basics for Data Science Specialization

UC Davis

https://tinyurl.com/sql-cr

Assess and create datasets to solve your business questions and problems using SQL and produce an end-to-end pipeline. **Tech Stack**: SQL, Apache Spark, Delta Lake, Databricks

10/2022

Google Data Analytics Professional Certification

Google

https://tinyurl.com/gdac-cr

Cleaned, organized, visualized, and presented big data for analysis. **Tech Stack**: SQL, R, BigQuery, Tableau.