Amairani Rosario

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LinkedIn: https://www.linkedin.com/in/amairani-rosario/ | GitHub: http://github.com/AmairaniR
Portfolio: https://amairanir.github.io/Portfolio-Website/

Summary

Highly self-motivated and driven to construct clean and solid data pipelines optimized through continuous monitoring and testing performances for future analyses. Strengths include modern languages (English, Spanish, French, Italian), applying critical-thinking skills to find solutions to various data challenges, and presenting those solutions in creative and stunning, user-friendly visualizations.

Technical Skills

Excel, Git, VBA, Python, Pandas, Matplotlib, APIs, PostgreSQL, HTML, CSS, JavaScript, Plotly, Tableau, R, ETL, SQL, Flask, MongoDB, Bootstrap, Spark, NLP, AWS, Machine Learning, Scikit-Learn, Imbalanced-Learn, Neural Networks, TensorFlow, Web Scraping, D3, Leaflet, Microsoft Office Suite, Google Suite

Project Experience

Neural Network Charity Analysis | GitHub Repo: https://github.com/AmairaniR/Neural_Network_Charity_Analysis
- Implemented a deep learning neural network binary classifier using TensorFlow capable of predicting whether applicants will be successful if funded by a non-profit organization.
- Applied optimization techniques (i.e. KerasTuner) to the initial model to reach the target predictive accuracy.

School Districts Analysis | GitHub Repo: https://github.com/AmairaniR/school-districts-analysis
- Aggregated the standardized reading and math test scores for schools in a district using Python and Pandas in Jupyter Notebook to establish trends in school performance to help decide budget allotments for the fiscal year.

Amazon Vine Analysis| GitHub Repo: https://github.com/AmairaniR/Amazon_Vine_Analysis
- Optimized the marketing efforts of Amazon's book reviews by using PySpark to extract the data, transform it, and connect it to an AWS RDS instance.
- Loaded the transformed data into PgAdmin using PostgreSQL to create the tables.
- Determined the presence of bias, using Pandas, towards favorable reviews from vine members, who are required to publish a review, versus non-vine members.

Professional Experience

Research Assistant   September 2020 – May 2021
Princeton University Princeton, NJ
- Analyzed the documents and images in Jacques Derrida's digitized seminars to confirm that all images were in numerical and logical order
- Reported any discrepancies in the images and content to the director through Microsoft Excel
- Collaborated with the director and other research assistants on how to assemble and present this future online archive to the public

Teaching Assistant/Instructor of Record   August 2018 – May 2020
University of Illinois at Chicago Chicago, IL
- Taught French and Francophone grammar, culture, and literature both in-class and online to classes of 20 to 25 students, three sections of level 101, and three sections of level 103
- Developed the curriculum and prepared daily lesson plans including objectives, explanations, activities, and assessments to improve reading, written, oral, aural proficiency in the target language
- Managed student and departmental communication, including grades and announcements, through Blackboard, Google Applications, and Microsoft Office Suite

Education

Certificate in Data Analytics and Visualization. *Columbia University* New York, NY   2022
Master of Arts. in French. *University of Illinois at Chicago* Chicago, IL   2020
Bachelor of Arts in French. *Florida State University* Tallahassee, FL   2017

Languages: Fluent in English, Spanish, and French. Reading knowledge in Italian.