Jeffrey Ochavillo

Aspiring Data Scientist/Analyst
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Education

Master of Science in Data Science September 2022 - June 2024

Seattle University | Seattle, WA

> *Relevant Coursework*: Statistical Machine Learning, Data Science, Introduction to Tableau, Data Visualization, Machine Learning I, Data Visualization and Tableau, Financial Mathematics

Bachelor of Science in Mathematics September 2015 - June 2020

Seattle University | Seattle, WA

> *Relevant Coursework*: Statistical Machine Learning I & II, Data Visualization, Data Management for Data Science, Probability for Data Science, Programming for Data Science, Crime Mapping, Advanced Machine Learning, Economics and Business Forecasting, Big Data Analytics

Certifications: SQL for Data Science from IBM, Analyzing Data with Python from IBM, Marketing Analytics from University of Virginia

Experience

Chelan County Public Utility District Wenatchee, WA
Data Science Intern January 2024 – June 2024

- Led capstone project forecasting water inflows for Rocky Reach and Rock Island dams, optimizing operations and addressing electricity demand and weather fluctuations at Chelan County PUD
- Analyzed a dataset of 2.6 million data points spanning multiple years, conducting comprehensive preprocessing tasks including feature engineering, standardization, PCA for dimensionality reduction, and Time Series Analysis
- Developed predictive models with Python outperforming traditional methods with R-squared values of 0.9959 for Rocky Reach and 0.9974 for Rock Island Dam using a 20-component PCA

Pushpay Redmond, WA
Data Migration Specialist January 2021 - Current

- Review and analyze data in Excel and manage databases for churches using SQL to manage inaccurate uploads ensuring organized and functional data are displayed on clients' sites.
- Implemented a tracking metric in Google Sheets for time dedicated to fixes and helped design new workflow for distributing assignments for new team members.
- Analyzed metric and identified 20% of work hours were to dedicate to fixes using RStudio and collaborated with team leads on ways to improve migration efficiency

Seattle University Seattle, WA
Kilowatts for Humanity Data Analyst June 2018 – August 2018

- Analyzed income, water, and energy data available to identify actionable insights to implement an electrical kiosk station in the Coron region of the Philippines.
- Executed data processing techniques on outputs from 50+ surveys using Excel to detect patterns to help make cross-functional project decisions and recommendations.
- Collaborated with the engineering and leadership team by facilitating weekly meetings to present data analysis reports and proposals informing project decision

Project

Machine Learning Basketball Analysis

- Predicted and correlated the salaries of 540 entries of National Basketball Association players using methods of statistical machine learning such as various regressions for business insights.
- Utilized R to report readable and understandable data visualizations of players' age, minutes played, scoring efficiency, and turnover percentage, which contribute to a player's value in the sport.

Wine Quality Prediction using Unsupervised Learning and Convolutional Neural Networks

- Utilized unsupervised learning techniques like PCA and clustering on a red wine dataset to uncover underlying structures.
- Developed a custom CNN model to predict wine quality based on physicochemical attributes, achieving a test accuracy of 53.6% with fine-tuned hyperparameters.
- Demonstrates the application of data science in optimizing wine quality for enjoyment and wellness despite dataset limitations.

Skills

Development Skills: Proficient in SQL, R, Python, Tableau, ArcGIS, PowerBI, Matlab, Mathematica, Microsoft Excel
Frameworks: Pandas, scikit-learn, Keras, NumPy, Beautiful Soup, Spark, Hadoop, seaborn, TensorFlow
Interest: Videography & Photography, Basketball, and Volleyball