Bryan C. Johns

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Portfolio: johbry17.github.io/portfolio

Data Analyst & Communicator | Scientific Mind, Human Touch

I read data like a scientist and a room like a bartender. With a global lens and hands-on experience, I bring curiosity, critical thinking, and human-centered storytelling to every analysis. I build models that perform—and insights that connect. Fluent in Python, SQL, and human.

Data Science & Technical Training

George Washington University
- Data Analytics Boot Camp

Google Certificates (via Coursera)
- Advanced Data Analytics
- Data Analytics

Harvard / edX (cs50 Series)
- CS50x: Introduction to Computer Science
- Python • R • SQL • Cybersecurity • Web Development
- Artificial Intelligence

Education

M.A., International Affairs – American University, Washington, DC
M.A., Natural Resources & Sustainable Development – UN University for Peace, Costa Rica
B.A., International Development, – Evergreen State College, WA
- Study Abroad: University of Minnesota, Jaipur, India

Experience

Supervisor and Lead Bartender   **2012 - Present**
Tonic Restaurant, LLC   **Washington, DC**
- Boosted sales by 20–30% and cut staffing costs 25% by designing and hosting a popular weekly trivia night that improved customer retention and streamlined scheduling
- Managed up to 20 staff and reconciled nightly financials up to $25K
- Trained staff and solved complex problems in a dynamic, multicultural workplace. Led with clear communication and fast thinking—skills now applied to structured, data-driven analysis

Projects

Cyclistic Analytics | github.com/johbry17/Cyclistic-Analytics
R • Tidyverse • R Markdown
Analyzed 5.8M ride records to uncover key user behavior: casual riders averaged 20-minute weekend rides, while members averaged 12-minute commutes. Highlighted electric bike growth and geographic segmentation across Chicago.
Impact: Informed targeted marketing and membership strategies.

Classified: At Risk | Attrition Prediction | github.com/johbry17/Salifort-Employee-Churn-ml
Python • Scikit-learn • XGBoost • SHAP
Developed a classification model (96.7% accuracy) to predict employee attrition. Selected XGBoost for best recall (0.94) and precision (0.87), minimizing attrition blind spots while reducing false positives. Used SHAP for model explainability and cross-validated with Logistic Regression and Random Forest.
Impact: Identified high-risk groups by tenure, workload, and satisfaction—actionable for HR teams.

DC Short-Term Rental Explorer | github.com/johbry17/DC-AirBnB-Data
Python • PostgreSQL • Flask • Leaflet.js
Built a geographic dashboard mapping pricing and occupancy trends in DC's short-term rental market. Connected a PostgreSQL-Flask backend to dynamic JavaScript visualizations.
Impact: Delivered a clear tool for policymakers and hosts to understand regulatory and market dynamics.

Technical Skills

Languages: Python, R, SQL, JavaScript
Visualization: Matplotlib, Seaborn, Plotly, Tableau, ggplot2
ML & Modeling: Scikit-learn, XGBoost, SHAP
Databases: PostgreSQL, SQLite, MongoDB
Data Cleaning & EDA: pandas, NumPy, Tidyverse
Web: Flask, Django, APIs, Beautiful Soup
Dev Tools: Git, Jupyter, RStudio, VS Code

Publications

PES and REDD+: The Case of Costa Rica
Analyzed the economic impact of Costa Rica's Payments for Environmental Services program, assessing its effectiveness in contributing to global efforts in climate change mitigation.

Languages

Spanish: Working Proficiency
Hindi: Elementary Proficiency