Bryan C. Johns

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Data Storyteller & Analyst | Bridging Data, People, and Purpose

Curious, analytical, and globally minded, I combine critical thinking with empathy to turn complex data into clear, actionable insights. Using Python, SQL, and R, my work performs technically and the stories connect clearly, supporting real decisions and meaningful impact.

Data Science & Technical Training

Applied Analytics & Modeling
- Data Analytics Boot Camp – George Washington University
- Advanced Data Analytics – Google (Coursera)
- Statistical Learning (ISLP – Stanford Curriculum)

Computer Science Foundations
- CS50x: Introduction to Computer Science
- Artificial Intelligence (AI) – CS50 / HarvardX
- Python • R • SQL • Cybersecurity • Web Development

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

Fluent in Data. Fluent in Human.

Projects

Cyclistic Analytics | User Conversion Analysis | 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.

Capital Crashpad | DC Airbnb Analysis | github.com/johbry17/Capital-Crashpad
Python • PostgreSQL • Flask • Leaflet.js
Built an interactive geospatial dashboard analyzing structural breaks in DC's short-term rental market following platform verification enforcement. Integrated a PostgreSQL backend with dynamic JavaScript visualizations to surface pricing shifts, listing contraction, and minimum-stay distribution changes.
Impact: Revealed that enforcement reshaped both ends of the market, not just low-performing units, reframing the narrative around regulatory market effects.

Technical Skills

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

Publications

PES and REDD+: The Case of Costa Rica (Impact analysis of environmental payments)

Languages

Spanish (working proficiency), Hindi (elementary proficiency)

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