

Jimmy Winslow

SUMMARY

Data Scientist skilled in **data analysis**, **statistical modeling**, and developing client-focused solutions. Proven expertise in **building data pipelines**, creating dashboards, and conducting **A/B testing** to drive actionable insights and improve user experience. Proficient in **R**, **Python**, and **SQL**, with a background spanning healthcare, government, and corporate settings. Effective **communicator** adept at translating complex insights to both technical and non-technical audiences to inform strategic decisions.

SKILLS

- **Languages & Tools:** R, Python, SQL, SAS, Tableau, GitHub/Git
- **Data Engineering & Cloud Platforms:** Azure, AWS, ETL Processes, Data Pipelines
- **Statistical Analysis & Modeling:** Bayesian Statistics, Experimental Design, Hypothesis Testing, Machine Learning Techniques
- **Communication & Collaboration:** Presenting technical results to non-technical audiences, Client Consultation, Business Strategy Alignment
- **Marketing Analytics:** Customer Churn Prediction, Marketing Strategy Development, Media Performance Measurement

PROFESSIONAL EXPERIENCE

Data Scientist, Arisant | 04/2022 - 07/2023

As a Data Scientist at Arisant, I developed data science solutions and engineered data pipelines to enhance business operations and analytics for private businesses and government clients.

- **Developed AI-LM pipelines** and reporting infrastructure to enhance business operations. Managed databases with **SQL** and cloud platforms (Azure & Oracle), **reducing data processing errors by 15%**.
- Consulted with clients to understand their reporting needs and ensure compliance with government regulations for oil drilling operations.
- **Engineered custom data pipelines** from raw data to interactive dashboards, **increasing reporting accuracy by 33%** for the US Department of the Interior.
- **Boosted customer retention by 8%** through **machine learning models** for customer churn prediction using TensorFlow and scikit-learn.

Data Scientist, University of Colorado School of Medicine | 11/2020 - 12/2021

At the University of Colorado School of Medicine, I focused on developing and implementing machine learning models to improve healthcare outcomes.

- **Led statistical analysis projects**, resulting in a 15% improvement in **predictive model accuracy** for surgical risk assessments.
- **Developed an R Shiny app** that increased the user base by 25% by assessing and visualizing surgical risks.
- **Collaborated with clinical teams** to integrate **machine learning insights**, enhancing **clinical decision-making**.

Biostatistician, VA Eastern Colorado Health Care System | 03/2019 - 05/2020

As a Biostatistician at VA Eastern Colorado Health Care System, I supported clinical research through data analysis and statistical modeling.

- **Increased active studies by 20%** through **analysis of longitudinal and survival data** using **SAS/R/Python**. Developed **analytic plans** and reports for **physicians** in various specialties.
- **Collected and cleaned data** from multiple sources using **SQL** and **Python/R**. Designed **statistical models** to identify key **health trends**, improving **patient care strategies**.
- **Conducted hypothesis testing** and **survival analysis** to support **clinical research**, contributing to **evidence-based medical practices**.

Teaching Assistant, Colorado School of Public Health | 2017 - Mar 2019

Supported graduate-level education by teaching statistical software and methods to diverse public health students.

- **Led laboratory sessions** to teach graduate students **statistical software** (STATA and SAS) and applied **statistical methods** to clinical scenarios across disciplines such as **Maternal Health**, **Biostatistics**, **Epidemiology**, and **Occupational Health**.
- **Instructed over 200 graduate students** and **collaborated with faculty** to develop lab assignments, resulting in **lab group test scores** that **surpassed class averages by 5%**.
- **Provided individualized support** to students to enhance their proficiency in **data analysis techniques** and **statistical concepts**.

Community Coordinator, Tennessee Justice Center | Aug 2016 - Jul 2017

Advocated for underinsured/uninsured individuals by educating communities and increasing healthcare accessibility.

- **Educated clients** about **insurance eligibility**, resulting in a **15% increase** in successful **Medicaid and Marketplace applications**.
- **Compiled a report** on the impact of **Tennessee's Medicaid policies**, gaining support from local organizations and resulting in a **10% increase** in active participants in **grassroots lobbying efforts**.
- **Cultivated relationships** with **marginalized communities** and communicated **complex healthcare policies**, fostering **trust and inclusivity** among underrepresented populations while advocating for **healthcare rights**.

----- EDUCATION -----

MPH in Biostatistics

University of Colorado Denver | Aurora, CO

BS in Mathematics & BA in Biology

Gonzaga University | Spokane, WA

----- PROJECTS -----

Instagram Photo Resizer & Quality Optimizer

Technologies: Python, Pillow, ColorThief, GitHub/Git, Image Processing, Custom Algorithms

- **Developed a Python application** for dynamically **resizing and enhancing images** for **Instagram's multi-photo feature**, ensuring consistent **quality and aspect ratio**.
- **Utilized advanced image processing techniques** to generate **custom borders** from dominant image colors, applying a **two-prong strategy** for **image scaling**.
- **Optimized the algorithm** through **performance metrics (SSIM, MSE)** and **iterative testing**, improving **image clarity and quality**.
- Demonstrated skills in **automation** and **data-driven optimization** to enhance **real-world media workflows**.

Wedding Bingo Azure Web Application

Technologies: Python, Flask, Azure, HTML/CSS, GitHub/Git, Responsive Design

Deployed a Flask-based Python app on Azure App Service, featuring a dynamic, interactive bingo board for an upscale wedding.

- **Designed** the board using Jinja2 templating and implemented responsive front-end development to ensure seamless interaction across devices.
- **Leveraged** Azure's App Service for cloud deployment and efficient management, demonstrating expertise in cloud computing and continuous integration.
- **Translated** user requirements into a functional, scalable product, emphasizing data-driven design applicable to enterprise environments.

----- PUBLICATIONS -----

Carbon dioxide enrichment alters predator avoidance and sex determination but only sex is mediated by GABAA receptors

Hydrobiologia • 11/2018

Snails from heavy-metal polluted environments have reduced sensitivity to carbon dioxide-induced acidity

Springerplus • 06/2015

Development of a Web Application for the Surgical Risk Preoperative Assessment System (SURPAS)

Journal of Surgical Research (Submitted for Publication 06/2024)