Taimoor Qureshi

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Education

University of California, San Francisco — San Francisco, CA
Master of Science in Health Data Science, Biostatistics, GPA: 3.83/4.00 — *July 2023 – June 2025*
- Coursework: Machine Learning in R, Causal Inference, Biostatistics I-IV, Mathematics in ML, Epidemiology

University of California, Davis — Davis, CA
Bachelor of Science in Psychology, Pre-Medicine, GPA: 3.71/4.00 — *Sep. 2019 – June 2022*

Experience

Data Scientist (Capstone Project) — San Francisco, CA
University of California, San Francisco — *Oct. 2024 – Present*
- Modeled tuberculosis clinical trial data using Bayesian methods in R to identify ineffective treatments 10 months earlier, improving trial efficiency and patient safety.
- Translated MCMC simulation outputs into trial decision rules, guiding protocol changes projected to save $2–4.5M per Phase IIb study.
- Validated model performance across 3,500 simulations; triangulated outputs using rankings, thresholds, and control comparisons to ensure robust decision-making.
- Presented findings at JSM and first-authored publication on Bayesian modeling for healthcare trial optimization.

Data Science & Ops Intern — Pleasanton, CA
Roche — *June 2024 – Sep. 2024*
- Queried clinical trial data using SQL and built Python ETL pipelines to aggregate and analyze delays across 100+ studies
- Created interactive Plotly dashboards by document type to visualize bottlenecks and drive process improvements.
- Built Excel-based statistical sampling tool to flag studies at risk of audit, reducing preparation time by over 70%.
- Designed 12 KPIs to monitor clinical trial lifecycle phases; adopted by 3 Clinical Operations teams to improve timeline visibility and trial oversight.

Researcher Assistant — San Francisco, CA
Bakar Computational Health Sciences Institute — *Nov. 2023 – May 2024*
- Built a Python-based rule-based labeling program to classify Crohn's and colitis diagnoses in 10,000+ EHR notes, creating a gold-standard dataset for evaluation..
- Used GPT-4 API with zero-/few-shot prompting to extract structured diagnoses from unstructured clinical text.
- Benchmarked GPT-4 outputs against rule-based gold-standard labels; GPT-4 achieved higher recall (91%) with comparable accuracy (87%) and precision (84%), suggesting improved sensitivity for clinical screening tasks.

Data Analytics Intern — San Francisco, CA
University of California, San Francisco — *Mar. 2023 – July 2023*
- Performed regression analysis to compare freezer performance, identifying efficiency gaps and saving $6,000+ in projected annual lab costs.
- Created a Tableau dashboard used by operations to track freezer KPIs weekly, driving 15% supply chain cost savings through real-time monitoring.
- Presented data-driven recommendations to lab leadership with precise outputs and actionable findings.

Hackathon Winning Project

Too Long; Don't Wait (tl;dw) | *Python, SQL, Azure Data Studio, Streamlit* — Aug. 2023 – Dec. 2023
- Led a 3-person team to prototype and deploy a real-time ER wait-time prediction app in 5 days, winning **2nd place** and a **$3,000 prize** out of **40+ teams** at the Health Universe Hackathon.
- Built a real-time ER queue tracker using patient counts to guide ambulance routing decisions and improve hospital transparency.

Technical Skills

Languages & Libraries: Python, R, SQL, pandas, numpy, scikit-learn, pytorch, dplyr, tidyr, brms
Visualization & Analysis Tools: Tableau, Power BI, Seaborn, Matplotlib, Plotly, Dash, ggplot2, Shiny
Databases & Platforms: Microsoft SQL Server, PostgreSQL, Google BigQuery