

SONALI SINGH

www.sonalijsingh.com | 201sonali@gmail.com | (409) 201 - 7784

EDUCATION

The University of Texas at Austin	Data Science M.S.	Dec 2023
The University of Texas at Austin	Mathematics B.S. Applied Statistical Modeling Certificate, Business Minor	May 2021

TECHNICAL SKILLS

Languages/Software: Python (Advanced), R (Advanced), Excel (Advanced), SQL (Intermediate),

Relevant Coursework: Machine Learning, Deep Learning, NLP, Data Structures and Algos, Reinforcement Learning, Adv Pred Models

PROJECTS

Evil Hangman – Python Sept 2022

- Designed hangman game that beat a human player by maximizing wrong answers across entire dictionary in most efficient Big O time

Meat Consumption vs. CO2 Emissions – R May 2022

- Investigated relationships from raw user data through linear regression and k-means clustering for grouping; used ggplot for visuals

WORK EXPERIENCE

Booz Allen Hamilton – Washington, D.C. Aug 2022 – Aug 2023
Operations Research Analyst, Sr. Consultant

- Lead analyses (20+) using cost data across 12+ databases and contract data (\$1B+); presented technical findings to diverse audiences
- Collaborated with cross functional teams to develop a consolidated cost and schedule risk dashboard (Power BI) to sync client data
- Analyzed 2 multi-billion-dollar DOD contracts to identify government cost savings and support negotiations (~16% average savings)

Operations Research Analyst, Consultant Jul 2021 – Jul 2022

- Aggregated 42 discrete multi-million-dollar cost models into a dashboard to track and visualize summaries for internal and client use
- Forecasted spending for 8 program offices via data collection and analysis to inform data-driven annual budget requests (\$500K+)

US Ignite – *Research Intern*, Washington D.C. Jun – Aug 2020

- Queried public data for 51 cities (SQL) to create a regression model analyzing socioeconomic trends of cities within US Ignite's client network in order to prevent bias and improve service offerings during expansion; directly impacted addition of 2 new cities in network
- Wrote 4 smart city pilot proposals, one of which launched a \$40,000 COVID-19 safety & innovation pilot in Arlington County, VA

Texas Commission on Environmental Quality – *Air Quality Intern*, Beaumont, TX Jun – Jul 2018

- Developed more efficient method (Excel) to calculate routine refinery stack tests in 1/3 the time; adopted by Air Section Team of 12

VOLUNTEER EXPERIENCE

Texas 4000 – *2019 Finance and Operations Chair & Rider, Alumna* Nov 2017 – Present

- Volunteered 150 hours and cycled 4,000+ miles from Austin to Anchorage, AK over 70 days to raise awareness for cancer research
- Managed \$760,000+ of rider finances, corporate and personal donations, and corporate matching for 89 riders over 10 months

Interfaith Action of Central Texas – *Refugee Youth Program Mentor* Feb 2019 – May 2021

- Mentored high school students for 2 hours per week in their classes and provided college application and financial aid support
- Solved problems and delivered solutions to assist refugee families in adjusting financially and socially in a fast-changing environment

HONORS

Booz Allen Award: Collective Ingenuity June 2022, July 2023

University of Texas Presidential Scholar Aug 2017 – May 2021

University Honors Spring 2019, Spring and Fall 2020

ADDITIONAL INFORMATION

Languages: English (native), Spanish (moderate)

Interests: Long distance running, singles tennis, road biking, reading, traveling

Work Qualifications: US Secret Security Clearance, Eligibility to work in the US with no restrictions