

SONALI SINGH

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EDUCATION

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

TECHNICAL SKILLS

Languages: Python, R, SQL, Excel

Relevant Coursework: Machine Learning, NLP, Deep Learning, Adv. Predictive Modeling, Data Structures and Algos, Data Visualization

PROJECTS

Movie Review Sentiment Classifier, LLM – Python (torch, pandas, numpy, nltk)	Sept 2023
• Created perceptron (74% test acc.), LR (77% test acc.), and deep avg. network (77% test acc.) classifiers using 6,000+ labeled reviews	
Social Media Network Plot – Python (seaborn, matplotlib, numpy, networkx)	May 2023
• Analyzed 60,000+ network nodes, extracted 3 subgroups, and visualized findings via a connected network plot and adjacency matrix	

WORK EXPERIENCE

Booz Allen Hamilton – Washington, D.C.	
<i>Operations Research Analyst, Sr. Consultant</i>	Aug 2022 – Aug 2023
• Lead 20+ Navy cost estimates up \$10M, presenting complex models and results to diverse clients, stakeholders, and lead consultants	
• Analyzed 2 multi-billion-dollar DOD contracts to identify government cost savings (~6%) and support negotiations (Python, Excel)	
• Developed integrated cost and schedule risk dashboard, connecting client data through cross-functional collaboration (Power BI)	
<i>Operations Research Analyst, Consultant</i>	Jul 2021 – Jul 2022
• Automated and aggregated tracking of 42 discrete multi-million-dollar cost estimates for 8 client portfolios (Python, Excel, Power BI)	
• Streamlined forecasting and simulation of annual spending using raw, uncleaned data to inform data-driven budget requests (Excel)	
US Ignite – <i>Research Intern</i> , Washington D.C.	Jun – Aug 2020
• Conducted EDA and queried data for 51 cities to create a regression model analyzing socioeconomic trends of cities within client network to prevent bias and improve service offerings during expansion; directly impacted addition of 2 new cities in network (SQL, R)	
• Created 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 – <i>Analyst Intern</i> , Beaumont, TX	Jun – Jul 2018
• Optimized data pipeline linkages to develop more efficient method for routine refinery stack tests, reducing task time by 50% (Excel)	

VOLUNTEER EXPERIENCE

Maarga – <i>Independent Researcher</i>	Nov 2023 – Present
• Analyzing data from 100+ surveys to identify causes of PCOD in women in Karnataka's slums to support government funding request	
Texas 4000 – <i>2019 Finance and Operations Chair & Rider, Alumna</i>	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 \$800,000+ in corporate and personal donations, corporate matching, and rider purchases for 89 riders over 10 months	
Interfaith Action of Central Texas – <i>Refugee Youth Program Mentor</i>	Feb 2019 – May 2021
• Mentored 4 high school student refugees for 2 hours/week, providing academic tutoring and general acclimation support to families	

HONORS

Booz Allen: Collective Ingenuity	June 2022, July 2023
Freshman Research Initiative Thesis Project	Jan 2018
University of Texas Presidential Scholar	Aug 2017 – May 2021
University Honors	Spring 2019, Spring and Fall 2020

ADDITIONAL INFORMATION

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