

Education

Boston University <i>Master of Science in Software Development.</i>	2024 - Present
University of Massachusetts at Amherst <i>Bachelor of Science in Mathematics and Statistics</i>	2016 - 2020

Work Experience

Analyst , Liberty Mutual Insurance	Jan 2023 – Present
<ul style="list-style-type: none"> • Improved telematics program completion rates and increased the retention rate of safe drivers by building linear regression and tree model to analyze past user behavior, identify common characteristics and assess program completion rates • Developed interactive fraud model monitoring dashboards, enabling real-time monitoring and achieving an 11% reduction in fraud-related financial losses by promptly identifying and addressing model anomalies through proactive monitoring measures • Implemented data quality checks and data validation techniques using the fuzzy match and the great expectation packages in Python to ensure data reliability • Leveraged Python, SAS, and Snowflake to build and execute automated, dynamic queries, resulting in a remarkable 40% reduction in data processing time to increase data accuracy and reduce manual effort • Identified and resolved claims data quality issues by conducting thorough root cause analysis and implementing appropriate corrective actions, ensuring transparency and alignment between data system to mitigate any potential adverse impacts • Utilized SAS and Snowflake to effectively manipulate and analyze customer segmentation media data, to provide actionable insights to improve targeting strategies 	
IT Consultant , Capgemini	Aug 2020 – Aug 2021
<ul style="list-style-type: none"> • Collaborated with cross-functional product team and stakeholders to define KPIs, business requirements and drive product features into production through Agile scrum methodology to enhance project efficiency, resulting in a 15% reduction in development cycles and ensuring timely product delivery • Improved and derived project efficiency by 5% through restructuring process documents and tracking, evaluating, and communicating project status including risks, actions items 	

Research Experience

Research Intern , Department of the Interior	Sep 2021 – Dec 2021
<ul style="list-style-type: none"> • Cleaned, imputed, and analyzed over 10k+ data points with R and Excel, to provide data insights and a plan of action to increase federal programs' language accessibility for minority groups that aims to result in a measurable 20% increase in program engagement within the targeted demographic in local group 	
Research Assistant , University of Massachusetts, Amherst	Jan 2019 – May 2019
<ul style="list-style-type: none"> • Analyzed large public datasets with over 1M+ data points with R and Excel to provide insights to the Syrian War Death Population research project and contributed to the final publication • Applied statistical models such as linear regression, logistic regression, and cluster models, and created data visualizations to explore and identify true population data points 	

Skills

- Programming Languages: Python, SQL, Java, Scala, R
- Hadoop, Spark, Hive, Informatica, Talend, SQL Server, MySQL, Oracle, MongoDB, Azure, Google Cloud, Snowflake, Redshift, Tableau, Power BI