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| **Gowtham Asokan**  Boston, MA 02113 • (617) 697-1407 • [GitHub](https://github.com/g-asokan) • [Personal website](https://g-asokan.github.io/index.html) • gashokan@bu.edu |

**Education & Affiliations**

**Boston University, College of Arts and Sciences**

M.S. Computer Science May 2021

Courses: software design, data structures and algorithms, computer architecture, operating systems, data science with python, data analysis and visualization with r, database management.

B.A. Economics and Political Science May 2019

Courses: empirical economics, european politics, quantitative voting behavior, healthcare economics, industry & Market Organization

**Istanbul International Community School** May 2015

**Volunteering**

Living assistance volunteer - Bomonti Old Age Home in Istanbul April 2014

CFO - Boston Area Model United Nations Conference October 2017

**Work Experience**

**Harvard University, T.H Chan School of Public Health**,Boston, MA | July 2021 – Present

**Data Scientist**

* Working on the Apple Women’s Health Study with an interdisciplinary team of biostatisticians, epidemiologists, doctors, and researchers on a longitudinal study on menstrual cycles, PCOS, and other related issues working with Apple and the NIEH.
* Leveraging an Apache Spark distributed computing cluster to build the data pipeline for Apple watch collected sensor data to inform the study.
* Performing regressions, clustering, data visualizations, and linear mixed models to model the impact of heart rate data on the phase of participants menstrual cycle phases.
* Maintaining the software and data stacks that supports the researchers including a Hadoop file system repository, a custom-built JupyterLab distributed cluster, and data exports.

**Boston Planning and Development Agency**,Boston, MA | January 2021 – May 2021

**Data Science Research Intern**

* Scraped and wrangled data from public API sources from Bing, Yelp, and Yellowpages to build a public business dataset for the City of Boston’s BPDA.
* Worked with a cross-functional team of urban planners, economists, and policy analysts to deliver analysis about neighborhood characteristics in Boston – demographics, foot traffic, and profile of businesses.
* Cleaned and pre-processed the data by standardizing addresses, reverse geocoding, removing fuzzy duplicates using haversine distances and string similarities with Python’s Dask for improved parallelized performance on large datasets.

**BU SPARK!**,Boston, MA | November 2019 – May 2021

**Data Science Project Manager**

* Leading 6 teams focused on interdisciplinary data science projects serving local governments, non-profits, and publications such as the City of Boston, NAACP, WGBH, ACLU, and the Associated Press.
* Lead the delivery of a data report on Boston Police overtime abuse in collaboration with the ACLU to inform City council hearings.
* Conducting analysis on racial media bias using BERT derived neural nets to build semantic understanding, campaign finance contributions, topic modelling, and web scraping tools using Selenium and Beautiful Soup.
* Projecting evictions in MA using an Autoregressive-moving-average model and creating a time series dashboard on Tableau to match to state rental assistance funding to determine Census blocks most at risk of evictions in the COVID housing crisis.
* Building Machine learning and statistical models on novel applications – using k-means clustering to create batch based deduplication of rental listings, logistic regression models predicting police officers’ likelihood to contribute politically based on misconduct reports, Decision tree to model a multi-round game to understand the relationship between aggression and cooperation levels in children.

**CERES INSTITUTE, WHEELOCK COLLEGE -** Boston, MA | June 2020 – August 2020

**Research Manager**

* Worked with an interdisciplinary team examining youth recidivism in the MA Department of Youth Services’ YES program using caseworker notes and youth demographic information.
* Managed a team of 2 researchers to produce data visualizations, LDA topic clustering to determine causes for youth engagement in the YES support program

**AXON**, Seattle, WA | June 2018 – August 2018

**Public Relations Intern**

* Designed European marketing plan for Germany, France, UK, and Italy in collaboration with cross-functional teams across Gov. affairs, Product marketing, and Europe.
* Synthesized European market concerns and needs such as AI, Cloud security, GDPR, and upgraded law enforcement technologies into report as foundational support for the upcoming 5-year business operations.
* Produced messaging map for the Taser 7 by leveraging engineering specifications for public messaging.
* Organized and managed interview between the President of Axon and the Phoenix Business Journal to boost company brand profile in preparation for Software recruitment event.

**Skills**

Python – Natural Language Processing, Pandas, NumPy, Matplotlib, NLTK, C++, R, SQL, Stata, Web Development, Video Editing and Production, Public Speaking, Fluent Tamil, Fluent Turkish, Elementary French, IT customer service