

MATTHEW LAMPL

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Education

CARNEGIE MELLON UNIVERSITY, HEINZ COLLEGE

Master of Science in Public Policy & Management - Data Analytics

Honors: Highest Distinction (GPA: 3.95)

Pittsburgh, PA

August 2021 - May 2023

PENNSYLVANIA STATE UNIVERSITY

Bachelor of Science in Information Science and Technology

Minors in Geography and International Studies

University Park, PA

June 2013 - May 2017

Skills & Coursework

Technical Skills: Python (pandas, numpy, scikit-learn, spacy, gurobi, matplotlib, seaborn), R (ggplot, dplyr, tidyverse), R Shiny, SQL (Oracle, Postgres, MySQL), Microsoft Excel, Microsoft Power BI, Tableau, GIS (ArcGIS Pro, QGIS, geopandas, sf), git

Coursework: Data Mining, Programming R for Analytics, Database Management, Data Focused Python, Statistics, Econometrics, Management Science, Machine Learning for Public Policy, GIS, Data Visualization, Data Science for Product Management, Intro to AI

Professional Experience

UPMC

Pittsburgh, PA

Strategy Consultant – Department of Population Health Analytics

August 2023 - Present

- Created a socioeconomic index that used Principal Components Analysis to distill various census variables into one value that could be used as a measure for social determinants of health based on geographic areas
- Developed a mapping tool in Microsoft Power BI that allowed stakeholders to compare socioeconomic indicators between different levels of geographic aggregation
- Built and maintained a portfolio of health equity related dashboards and analytic tools using SQL, R, Python, and PowerBI

Accenture

Chicago, IL

Technology Architecture Delivery Analyst/Senior Analyst

September 2017 - June 2021

- Created and maintained a catalog to document all existing interfaces between both internal and external applications and systems to assist a large auto parts company's acquisition and split
- Liaised with application developers to onboard applications to a Microsoft Azure Enterprise Sign-On system
- Built a Microsoft Power BI dashboard to display user trends of an internal security website to present to project leadership
- Interviewed application integration developers to uncover pain-points in the application security onboarding process

Projects

Transportation Equity, Mobility Justice, and Bikesharing in Pittsburgh

January 2023

- Developed a three-phased statistical approach to optimize Pittsburgh's bikeshare network for both access improvements and ridership with a focus on equity
- Gathered, cleaned, and joined data from a variety of sources including the US Census to perform statistical analyses
- Presented and reported up to 30 new bikeshare station locations that satisfied optimality constraints to project stakeholders

Decreasing the Risk of Reincarceration by Proactively Providing Mental Health Services

September 2022

- Developed a Machine Learning model using a time-based validation method that identified those most at risk of reincarceration to proactively offer mental health services
- Identified areas of potential bias, privacy concerns, and fairness of the model to ensure an effective, and equitable deployment

Food Policy Data Analysis for the City of Pittsburgh's Office of Sustainability and Resilience

June 2022

- Constructed a Healthy Food Priority Areas dashboard using R Shiny that displayed the areas of Pittsburgh that were most affected by a lack of access to healthy food, and tracked their progress over time
- Utilized statistical and advanced analytics techniques including regression analysis to determine the key factors contributing to food insecurity throughout the city of Pittsburgh