

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, tensorflow, spacy, gurobi, matplotlib, seaborn), R (ggplot, dplyr, tidyverse), R Shiny, SQL (Oracle, Postgres, MySQL), Microsoft Excel, Microsoft Power BI, Tableau, GIS (ArcGIS Pro, QGIS), 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

City of Pittsburgh

Pittsburgh, PA

Food Policy Data Analyst Intern

May 2022 - August 2022

- Constructed a Healthy Food Priority Areas dashboard utilizing R Shiny to track key indicators of neighborhoods facing high levels of food insecurity over time
- Utilized Statistical and Data Analytics methodologies including Regression Analysis to determine relationships contributing to food insecurity to present to city policymakers

Accenture

Chicago, IL

Technology Architecture Delivery Analyst/Senior Analyst

September 2017 - June 2021

- Redefined the technical architecture of a large automotive parts company after an acquisition
- 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
- Defined correct method of integrating over 500 web applications to a Single Sign-On System by analyzing architectures
- Liaised with application developers to onboard applications to a Microsoft Azure Enterprise Sign-On system
- Built Microsoft Power BI Visualizations to display user trends of an internal security website to project leadership
- Interviewed application integration developers to uncover pain-points in the application security onboarding process
- Analyzed key insights of user behavior of a company webpage and suggested changes to improve experience

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 that identifies those most at risk of reincarceration to proactively offer mental health services
- Utilized a time-based validation Machine Learning method to identify 100 individuals who were most at risk of going back to jail
- Identified areas of potential bias, privacy concerns, and fairness of the model to ensure an effective, and equitable deployment

Cohort Data Analysis for Harvie Farm

June 2022

- Worked with a local food delivery service that specializes in connecting people with local organic food producers to develop an automated script that generates a report detailing how members move between membership tiers using python and openpyxl