PHI NGUYEN

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EXPERIENCE

Researcher

Mercator Research Institute | Berlin, Germany | Nov 2018 – Nov 2019

- Developed statistical and machine learning models in R to estimate the welfare loss of traffic congestion in Berlin, and proposed a congestion charge that would reduce congestion by 0.2 – 0.5% (approximately 1.2 – 3 billion EUR revenue gain annually).
- Solved identification challenges in supply and demand framework by using an instrumental variable approach and by generating counterfactual observations.
- Used DBSCAN clustering on over 32 million geospatial data points to model traveler heterogeneity.

Data Scientist

Priori Data | Berlin, Germany | Nov 2017 – Oct 2018

- Developed several machine learning models (GLM with regularization) to estimate app revenue & app stickiness, and used Python, Airflow, and Google BigQuery to schedule model deployment.
- Improved model performance metric MAPE (median absolute percentage error) by 17% in certain geographies and categories by creating benchmark observations and changing model formulation.
- Automated development of R Markdown reports to demonstrate to clients how well model was fitting to training data.

Senior Data Analyst

Intuit | Mountain View, CA | Aug 2013 – Feb 2016

- Led analytics and AB testing for Quickbooks.com using SiteCatalyst, SQL, R, and Tableau.
- Evaluated performance (conversion rate, retention, revenue, mix shift) for high-profile AB tests that led to introduction of new product line on the website (Quickbooks Self-Employed).

EDUCATION

Humboldt Universität zu Berlin

Berlin, Germany | Oct 2016 – Oct 2019

M.S. Statistics | 3.6 GPA [1,7 in German grading system]

UC Berkeley

Berkeley, CA | Aug 2009 – May 2013

B.A. Operations Research and Management Science | 3.86 GPA [Honors with Distinction]

SKILLS

Data Science & Statistics: Python (pandas, numpy, sklearn), R (tidyverse, mlr, R Shiny), SQL
Visualization: Tableau, qGIS, d3.js
Other: Git, Markdown, Jupyter notebook, command line, LaTeX, Excel