Alexander KLAPHEKE

Boston-based data scientist with linguistic expertise

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M.A. Linguistics, Harvard University   2019
B.A. Linguistics, Columbia University   2012

EXPERIENCE

Data science fellow, General Assembly   2020

Created data science reports & applications during 480-hour intensive training, including: data sourcing & cleaning, exploratory data analysis, feature engineering, regression and classification modeling, and machine learning.

Instructor, Harvard University   2014–2017

Taught 5 seminars in logic, semantics, discourse analysis, and philosophy of language.
Received Distinction in Teaching Award in fall 2017 for universally positive feedback.

Research assistant, Columbia University   2011–2012

Wrote BASH & AWK scripts to search 100-million-word linguistic corpus for NLP application.

PROJECTS

Tree map   alexklapheke.github.io/treemap

Created interactive map of street trees using JavaScript and D3.

Essay scoring   github.com/alexklapheke/essay

Analyzed essay scoring patterns, and trained a dual-input recurrent neural network on 350,000 words, achieving over 60% accuracy.

Menu analysis   github.com/alexklapheke/menu

Analyzed trends from over 17,000 menus going back to the 1870s; trained a Bayesian model to categorize menu items by decade.

COVID-19   github.com/alexklapheke/covid-sentiment

Analyzed sentiment from two subreddits to gain insight into public perceptions of statewide public health policies.

NPI intervention   DOI: 10.15496/publikation-32629

Gathered linguistic data in 3 languages using Mechanical Turk, and analyzed using linear mixed models in R.

SKILLS

Python   *Keras, Matplotlib, NLTK, NumPy, Pandas, scikit-learn, spaCy, Seaborn*

R   *dplyr, ggplot2, lme4, lsmeans*

Haskell

JavaScript   *D3*

Scala

BASH

SQL   *MySQL*

Git

LaTeX   *Beamer, TikZ*

HTML5 & CSS

Apache Spark

Amazon Web Services   *EC2, S3*

Amazon Mechanical Turk