Kenneth Lee

https://kenneth-lee-ch.github.io/

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Summary

- **About me**: A Ph.D. student in Electrical and Computer Engineering at Purdue University. My research interests are causal inference and machine learning.
- **Skills**: Python, R, MySQL, NoSQL, PySpark, Tensorflow, Scikit-learn, Pytorch, OpenCV, Numpy, Scipy, Tableau, MongoDB, AWS EC2, AWS dynamodb, AWS S3, MapReduce, HDFS, web scraping

Education

- **Purdue University** — West Lafayette, IN
  Doctor of Philosophy in Electrical and Computer Engineering — *Aug. 2021 - Present*
  - **Advisor**: Murat Kocaoglu
- **University of California, Davis** — Davis, CA
  Master of Science in Statistics — *Sep. 2019 - Jun. 2021*
- **Brigham Young University—Hawaii** — Laie, HI
  Bachelor of Science in Mathematics, Computer Science — *Sep. 2014 - Jun. 2018*

Publication

- **Lee, Kenneth**, Md Musfiqur Rahman, and Murat Kocaoglu. *Finding Invariant Predictors Efficiently via Causal Structure.* Uncertainty in Artificial Intelligence. PMLR, 2023.
- Reinhart, Alex, et al. *An open repository of real-time COVID-19 indicators.* Proceedings of the National Academy of Sciences 118.51 (2021).

Work Experience

- **Bayer AG** — Whitestown, IN
  Data Scientist Intern — *Aug. 2022 - Dec. 2022*
  - **Causal Inference**: Evaluated the heterogeneous treatment effects of environmental factors and human practice to crop emergence from observational data using econml and dowhy python packages.
- **Experian DataLabs** — Costa Mesa, CA
  Data Scientist Intern — *May. 2022 - Aug. 2022*
  - **On-chain analysis**: Evaluated on-chain credit risks on Ethereum via over TB+ data of financial activities from the lending protocols for assigning credit scores to wallet holders. Researched on smart contract vulnerability detection via reinforcement learning.
- **Newday Impact Investing** — San Francisco, CA
  Data Analytics Intern — *Jun. 2020 - Aug. 2020*
  - **Deep Learning**: Automated 25% of the portfolio construction process by labelling company listings with historic data that have 1:16 imbalanced class distribution and over 50% missing values using neural networks and transfer learning to achieve 0.7 F1-score.
  - **Portfolio Construction**: Scraped data via Thomson Reuters API from S&P 500 market for building a thematic portfolio in terms of racial justice impact and financial return with principal component analysis using data
- **Carnegie Mellon University** — Pittsburgh, PA
  Researcher, Delphi Research Group — *Sep 2020 - Feb 2021*
  - **Causal Modeling**: Published a study on the causal effects of government interventions on mobility with case count signals as confounders in the US using Delphi EpiData API. [**Link**]
- **University of California, Davis** — Davis, CA
  Teaching Assistant — *Sep 2019 - May 2021*
  - **Business Analytics**: Held discussion sections and labs for 40+ MBA students in topics of machine learning, intermediate statistics, web scraping, SQL.