Kenneth Lee

https://kenneth-lee-ch.github.io/
F1-OPT holder

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WORK EXPERIENCE

- **University of California, Davis** — Davis, CA
  Teaching Assistant — *Sep 2019 - May 2021*
  - **Love presenting ideas**: Held discussion sections and labs for 40+ MBA students in topics of machine learning, intermediate statistics, web scraping and SQL, and business analytics.

- **Newday Impact Investing** — San Francisco, CA
  Investment Analyst — *Sep. 2020 - May. 2021*
  - **Classification**: 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 ensemble learning to achieve 0.7 F1-score.

  Data Analytics Intern — *Jun 2020 - Sep 2020*
  - **PCA application**: Built a thematic portfolio with principal component analysis using data from S&P 500 in terms of racial justice impact and financial return.

- **Carnegie Mellon University** — Pittsburgh, PA
  Researcher, Delphi Research Group — *Sep 2020 - Feb 2021*
  - **Causal modeling:**: Studied the causal effect of government interventions on mobility with case count signals as confounders in the US using Delphi EpiData API. [**Link**]

- **Dell EMC** — Hong Kong
  Associate Consultant Intern — *Jul 2019 - Sep 2019*
  - **System Testing**: Designed and implemented test cases for user authentication using MS SQL Server for the human resources manpower information system of Hong Kong Vocational Training Council which has 1000+ staff.

- **Brigham Young University** — Provo, UT
  Researcher, Information and Decision Algorithms Laboratories — *Jun. 2017 - Sep. 2017*
  - **Data Collection**: Retrieved streaming messages from Twitter by using *tweepy*, a Python wrapper on the Twitter API, and stored the data in MongoDB, a NoSQL database. The entire process is implemented on AWS EC2.
  - **Natural Language Processing**: Processed tweets collected from Twitter by using *numpy*, *pandas*, *gensim*, and *word2vec* in Python to convert tweets into topics and the corresponding numeric signals. [**Link**]

EDUCATION

- **Purdue University** — West Lafayette, IN
  Doctor of Philosophy in Electrical and Computer Engineering — *Sep. 2021 - Jun. 2026*

- **University of California, Davis** — Davis, CA
  Master of Science in Statistics — *Sep. 2019 - Jun. 2021*
  - **Relevant Coursework**: Statistical Machine Learning, Natural Language Processing, Design Experiments

- **Brigham Young University—Hawaii** — Laie, HI
  Bachelor of Science in Mathematics, Computer Science — *Sep. 2014 - Jun. 2018*
  - **Relevant Coursework**: Artificial Intelligence, Algorithms and Complexity, Multivariate Statistics, Object-oriented Programming, Business Analytics, Advanced Database Topics

CERTIFICATION

- **Tableau Desktop Specialist**, Tableau Software

PROGRAMMING SKILLS

- **Languages**: : Python, R, SQL, MATLAB, C#, Java, CSS, HTML
- **Frameworks**: : Tensorflow, Keras, Theano, Scikit-learn, Pytorch
- **Others**: : MongoDB, AWS EC2, AWS DynamoDB, AWS S3, Jupyter Notebook