Ken Gary Zeng Resume

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Programming: Python, Java, Swift, MATLAB, R, SQL• **Tools**: Spark, Hadoop, PyTorch, GitHub, Command Line
Skills: computer algorithms, data science, data analysis, modelling, computer programming
Languages: English, Mandarin, Cantonese, Japanese

Education

Master's in Data Science • New York University • Graduating in 2023

Bachelor of Arts in Statistics and Mathematics • Rice University 2021 • GPA: 3.9/4.0

- **Courses:** Statistical Machine Learning, Tools for Data Science, Parallel Programming, Introduction to Program Design, Time Series Forecasting, Statistical Inference, Linear Regression
- **Clubs**: Rice Table Tennis Club (Vice President), Rice Chinese Yoyo club, Rice Data Science Club

Professional Experience

Machine Learning Intern, Rice NeuroScope Group, Department of Statistics 05/2020 – 05/2021

- Worked in a team of 2 to automate a custom classification process for vehicle detection.
- Used the pipeline to process and format more than 35000 images.
- Designed and implemented unit tests to verify the outputs of various components of the pipeline.
- Implemented a custom machine learning algorithm in MATLAB that achieves 95% accuracy on sample test dataset using 80% less training data than the standard benchmark deep learning process.

Undergraduate Researcher, Department of Computer Science, Rice University 05/2019 – 05/2020

- Used Twitter API to collect political tweets and document the online conversation on significant events such as the 2016 Texas Election.
- Designed a new pipeline to parse and clean tweet JSON files reducing processing time by 30%.
- Produce data visualizations for key social networks formed surrounding the 2018 Texas Election.

Data Analytics Intern, Pope Corporation, Houston 06/2021-07/2021

- Developed statistical models to classify high performing physiotherapy branches out of 200 clinic locations
- Achieved 86% accuracy on testing dataset, improving upon the existing model by 14%.
- evaluated the effect of 10+ factors on the success of a clinic location

Teaching Assistant, Department of Computer Science, Rice University 08/2019-12/2019

Projects

Predictive Maintenance for CSI Compressco, Houston • Sklearn • Pandas • Keras

- Developed software to collect and reorganize compressor readings from the Company's online database.
- Worked in a team of 5 to devise a machine learning anomaly detection system using the data.
- Scheduled weekly progress report meetings with a team of engineers from CSI Compressco.

Classifying Foods using Deep Learning • Pytorch • NumPy

- Trained multiple deep learning model on 100,000+ noisy images of 251 different types of foods.
- Tested classifiers on an unseen testing dataset with top-3 accuracy of 86%.