IRENE (ZIYING) ZHANG

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EDUCATION

University of Illinois at Urbana-Champaign *Aug 2020 - Dec 2021*
M.S in Computer Science

University of California, Berkeley *Aug 2018 - May 2020*
B.A in Applied Statistic (GPA: 3.62)
Relevant Coursework: Machine Learning, Time Series Analysis, Concepts of Statistic & Probability, Linear Modeling, Data Structure & Algorithms, Principles and Techniques of Data Science

TECHNICAL SKILLS

Programming:	Java, R, Python, JavaScipt, SQL
Software:	TensorFlow, AWS, Sci-kit Learn, Open CV, Pandas, Numpy, Seaborn, Matplotlib, PyTorch
Analytics:	Time Series, Inference and Regression, Feature Engineer, Regularization and Cross-validation
Machine Learning:	Random Forest, K-nearest Neighbors, NLP, SVM, Neural Network, Cluster Analysis

WORK EXPERIENCE

Work At Home Vintage Experts LLC *Jan 2020 - May 2020*
Data Scientist
- Built a predictive classifier that can predict an incoming remote employee's success.
- Used daily updated applicant's employment data from a relational database to carry out the data analysis and modeling in python.
- Extracted text data from 1000+ existing employees' emails using NLP to analyze the partnership between company and employees. Used Word Cloud for visualization.

City College of San Francisco *Jan 2017 - Dec 2017*
Computer Science Tutor
- Provided one-on-one tutoring sessions to guide students in solving challenging data structure problems (Tree, LinkedList, etc.) for 3 hours a week.

PROJECTS (ALL AVAILABLE IN GITHUB)

COVID-19 transmission rate Analysis
- Used each U.S. county's health resources and population information to identify factors that appear to impact the confirmed cases growth rate.
- Predicted COVID-19 confirmed cases growth rate of a county in a certain amount of time.
- Performed principle component analysis to reduce dimensions and increased accuracy by 5%.

Spam/Ham Email Classifier
- Built a logistic regression classifier to detect spam emails with 95% accuracy score.
- Visualized the distribution of frequent words to differentiate ham and spam emails.
- Evaluated models' performance with confusion matrix and ROC curves.

Malaria Diagnostic System
- Built a neural network to detect Malaria using images of blood cells and achieved 97% accuracy by implementing three convolution layers.

CERTIFICATIONS

Neural Network and Deep Learning By deeplearning.ai in Coursera.org
- Topics Cover: Convolution Neural Network, Sequence Model, Hyper parameter Tuning, Regularization and Optimization.