Jiafeng (Janice) Li

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SUMMARY

Statistical analyst with a background in Statistics and Data Science, having 5+ years of programming experience in R, Python and SQL. Driven to leverage data for solving real-world challenges through statistical modeling and analysis

PROFESSIONAL EXPERIENCE

University of California, Davis **Jul. 2023 – Sep. 2023**
Data Analyst *Davis, California*

- Conducted **data preprocessing** to improve data quality, employing advanced statistical modeling Mann-Kendall Test and **time series analysis** to classify salinity trend patterns of wells across California's Central Valley in **R**
- Generated statistical reports with **analysis, validation** and **prediction** to assist the supervisor by providing valuable insights into regional water quality dynamics

Yoren Information Technology (Shanghai) Co., Ltd. **Oct. 2021 – Jan. 2022**
Data Analyst Intern *Shanghai, China*

- Managed **JIRA** for backstage support at Lawson Convenience Store chains' retail department, ensuring seamless operations and resolving and enhancing customer service across **over 2,500** stores
- Analyzed and filtered data **over 100,000** daily using **Excel** and **SQL**, interpreting key business indicators and conducting **GMV**, **ROI** analysis independently, generating reports to assist manager with strategic adjustments

HistoBridge LLC **Feb. 2019 – Nov. 2020**
Research Analyst *North Brunswick, New Jersey*

- Utilized Excel's **PivotTable** to organize and summarize large datasets obtained from histopathology and immunohistochemistry, facilitating efficient data interpretation in biomarker development
- Employed Excel's advanced features like **macros** to automate data processing tasks, enhancing accuracy in data acquisition and analysis processes, employing **charts** to present trends and patterns effectively

RELEVANT PROJECTS

Analysis of Stimuli on Neural Activities in the Visual Cortex: Mixed Effect and Modeling Prediction (R)

- Applied **descriptive, inferential** and **sensitivity analyses** to study neurons in visual cortex react to visual stimuli
- Developed and validated a **mixed-effect ANOVA** model with **Levene's Test** and **Shapiro-Wilk Test**
- Employed various **regressions** and compared it with **random forest** models to predict trial outcomes based on neural activity and stimuli, enhancing **predictive accuracy**

Fashion Image Classification: Comparison between Traditional Machine Learning and Deep Learning (Python)

- Conducted **comparative analysis** of machine learning to enhance the classification of a **70,000-image** fashion dataset, evaluating **Support Vector Machine (SVM)** against benchmark models like Multinomial Regression and Decision Trees, focusing on key metrics such as training time and accuracy
- Optimized SVM and **Convolutional Neural Network (CNN)** models by **hyperparameters tunning**, resulting in a **89s** training time with an 90.72% accuracy for SVM and 2029s with an **93.19%** accuracy for the CNN model

EDUCATION

University of California, Davis **Sep. 2022 – Dec. 2023**
M.S. in Statistics (Data Science Track) *Davis, California*
Major Courses: Statistical Method in Machine Learning, Big Data & High-Performance Statistical Computing

Rutgers, The State University of New Jersey **Sep. 2017 – May 2021**
B.A. in Mathematics and Statistics *New Brunswick, New Jersey*
Relevant Courses: Linear Algebra, Bayesian Data Analysis, Regression Methods, Graphics in Applied Statistics

RELEVANT SKILLS

- **Programming Languages** – R, Python (NumPy, Pandas, Sklearn, Matplotlib), SAS, SQL, PostgreSQL, Tableau
- **Technical Skills** – Classification, Hypothesis testing, Data visualization, Machine Learning, A/B Testing