Zixiang Michael Jin

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Professional Qualifications

- **Business Intelligence**: RDBMS; ETL; Power BI; Tableau; Google Analytics; AWS; VirtualBox; Git, Alteryx, SAP.
- **Programming**: Python (Sickie-learn, Pandas, NumPy, Matplotlib, Seaborn, SciPy, NLP, Spark, OOP, etc.); SQL; Excel; AWS; Azure ML; Hadoop; TensorFlow; Keres.
- **Statistics & Machine Learning**: Experimental Design, Regression, Classification, Time series Forecasting, Clustering, Hyperparameter Tuning (Confusion Matrix, AUC, GridSearchCV, Lasso & Ridge), Dimensionality Reduction (PCA, LDA)

Professional Experience Highlight

Strategy Analyst, Brady Cooperation, Los Angeles, CA   5/2021-present

- Designed and developed an internal rebate discrepancy workflow in python to automatically audit rebates from distributors, saving Brady $1M annually.
- Deep cleaned over 60,000 rows of membership information in SAP, reducing 90% of customer complaints about pricing.
- Communicate effectively with senior leadership to identify and address areas for improvement. Trained and managed analytics team in diverse strategic and tactical areas of the business, including process development, optimization, and automation.

Data Manager, Maricopa Covid-19 Emergency Command Center, Phoenix, AZ   3/2020-5/2021

- Led a team of 5 to develop a Robotic Process Automation procedure, designed and manage PPE database, and performed data cleaning & visualization pipeline in python, which minified labor costs by 30% and improved report accuracy and latency.
- Forecasted PPE demand with six-sigma, regression, and decision forest model, to maintain appropriate PPE inventory levels.
- Supervised interns' training sessions and enacted Covid-19 Free PPE policy.

Data Analyst, Maricopa County, Risk Management, Phoenix, AZ   12/2019-5/2021

- Supported Risk Management director for planning, implementing, and achieving department strategic goals and objectives related to the department's mission of providing loss prevention, insurance, and claims management services to County departments.
- Defined and tracked KPIs, provided business insights and solutions, helped the Risk Management department decreased Worker's Compensation cost by 10% each year.
- Performed troubleshooting, including data integrity checks, data cleaning, exploratory analysis and feature engineering. Developed root cause analysis model using Logistic Regression that decreased accident rate by 15%.
- Developed and implemented report system (Origami Risk, SQL, Python, Tableau) to monitor 52 department's performance. Presented 10 years performance analysis to a wide range of directors and functional teams along with business insights.

Data Scientist Consultant, Keap, Tempe, AZ   12/2018 – 05/2019

- Helped the customer service team save thousands of customers by optimized model precision from 17% to 63% via Data-Cleaning, Hyperparameter tuning (Pipeline, Cross-Validation & Grid-search).
- Developed classification model with Random Forest, Logistic Regression, Linear Regression, Boosted Decision Tree, etc. to generate predictions and recommendations to support the customer service team for better customer segmentation and management.
- Performed data preprocessing, EDA and feature engineering to purify and validate datasets, Defined core project metrics using both analytical & visualization tools (Google Big Query, Python, Tableau and Prezi) and project managing platforms (Trello, Slack, Jira)

Projects

Natural Language Processing (NLP) and Topic Modeling on Users Movie Review Dataset
- Clustered unlabeled textual documents into groups while discovering latent semantic structures in Python. Preprocessed text by stemming and stop-words removing method in Python, and extract featured by TF-IDF approach.
- Identified latent topics and keywords of each document for clustering K- Means clustering.
- Visualized model results by dimensionality reduction using Principal Component Analysis (PCA).

Education

M. S. Computer Science (OMSCS), Georgia Institute of Technology, Atlanta, GA (Part-Time)	**Jun/2024**
M. S. Business Analytics, W.P. Carey Business School of Arizona State University, Tempe, AZ	**May/2019**
B.A. Design Management, Herberger Art School of Arizona State University, Tempe, AZ	**Jun/2017**