

XINYU (KENNY) ZHANG

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EDUCATION

University of North Carolina at Chapel Hill

Master of Science in Statistics, Analytics and Data Science

Expected May 2025

Chapel Hill, NC

The Ohio State University

Bachelor of Science in Statistics | Minor in Computer Science(GPA: 3.8)

Aug 2019 - May 2023

Columbus, OH

SKILLS

Programming languages: Python, R, SQL, Java, C, C++, JMP, MATLAB, Arena

Database & Tools: MySQL, Tableau, AWS, SAS, Excel, Spark

Technical Skills: Machine Learning techniques, Deep Learning, Git, Stochastic Process, Supervised Learning, Unsupervised Learning, NLP, Data Mining, Data Analysis and Visualization, Predictive Modeling, Computer Science, Exploratory Data Analysis, Time Series, Operation Research, Inference Statistics, Optimization, Simulation

Language Skills: English, Mandarin

WORKING EXPERIENCE

Acquco

Data Science Intern

May 2024 - Aug 2024

New York, NY

- Generated detailed inventory and financial reports using SQL, thoroughly analyzed large datasets to uncover key trends, and effectively streamlined reporting processes to support data-driven sales strategies, particularly for the back-to-school season.
- Developed an AI integration proposal for customer service, fine-tuned the GPT-3.5 model to boost email classification recall from 0.52 to 0.83, enhancing efficiency, customer satisfaction, and reducing operational costs compared to vendor solutions.

Wexner Medical Center

Data Analytics Intern

May 2022 - Aug 2022

Columbus, OH

- Implemented time series forecasting with ARIMA and SARIMA models for medical products and equipment, improving market price prediction accuracy by 20% and automating the pipeline to cut manual effort by 50% for timely pricing adjustments.
- Developed interactive visualizations in Python (Matplotlib, Seaborn, Plotly) to support price predictions, benchmark spending, and enhance negotiation strategies, resulting in 15% cost savings for category purchasing.

University of North Carolina at Chapel Hill

Teaching Assistant

Aug 2023 - May 2024

Chapel Hill, NC

- Instructed two undergraduate statistics and data science courses, supporting students' academic performance through weekly recitations, office hours, and detailed feedback on assignments and exams.

The Ohio State University

Student Analyst

Aug 2020 - Jul 2023

Columbus, OH

- Provided customer support to faculty and students by addressing IT software and hardware issues, managing IT systems including identity management and cybersecurity, and mentoring new student employees in system management and customer service skills.

PROJECTS

Sarcasm Detection with NLP Techniques | Python

Jan 2024 - April 2024

- Detect potential sarcasm in a text through preprocessing in Python with Pandas, Numpy, and NLTK, applied Naïve Bayes, Logistic Regression, SVM, CNNs, LSTM, and BERT, achieving 97% accuracy.
- Developed visualization of key sarcasm indicators and established guidelines to help prevent misinterpretation of sarcastic news as real.

Breast Cancer Subtype Classification with ML Techniques | Python

Aug 2023 - Dec 2023

- Classified breast cancer subtype in Python using features describing digitized images of fine needle aspirates of breast masses.
- Exploratory Data Analysis using L1 Logistic Regression, Multidimensional Scaling, and PCA to perform feature reduction.
- Applied classification methods including logistic regression, KNN, LDA, QDA, SVM, Random Forest, XGBoost, and Neural Networks, achieving 99.3% accuracy with KNN on MDS data to ensure appropriate treatment for each corresponding subtype.

Analysis of Life Expectancy | R

Nov 2023 - Dec 2023

- Conducted Exploratory Data Analysis in R on WHO data, managing missing values and creating temporal averages; used various regression techniques including Linear, Ridge, LASSO, Elastic Net, PCR, and PLS.
- Applied stepwise regression to identify key predictors and achieved an optimal prediction accuracy with a Mean Squared Error (MSE) of 14.58, providing actionable insights for public policy to improve health outcomes.