

Jane Zou

Irvine, CA | janezou2013@gmail.com | [linkedin.com/in/jane-zou-datascience/](https://www.linkedin.com/in/jane-zou-datascience/) | github.com/jane-z-zou | janezou.netlify.app/home

EDUCATION

University of California, Los Angeles

Statistics and Data Science, Bachelor of Science

GPA: 3.90/4.00

Cornell University

Machine Learning Foundations Certificate

GPA: 4.00/4.00

PROFESSIONAL EXPERIENCE

PricewaterhouseCoopers

Data Science Intern, Products and Technology

Irvine, CA

June 2023 - August 2024

- Enhanced predictive ML model accuracy by programming advanced demographic profiling and natural language processing.
- Boosted user engagement and digital service quality for a career exploration nonprofit through application of online career tools.
- Improved data visualization and decision-making capabilities by mastering PowerBI tools through 80 hours of intensive training.

Jules Stein Eye Institute

Research Data Scientist

Los Angeles, CA

May 2023 - June 2024

- Authored four papers in the American Glaucoma Society and Ophthalmology Journals, applying complex AI analytics to vast datasets to propel advancements in glaucoma research and treatment strategies.
- Automated visual field detection systems by imputing data from over 30 years of patient records, increasing diagnostic precision.
- Improved model reliability by 30% through rigorous parameter optimization and iterative testing, enhancing decision-making accuracy.
- Enriched healthcare datasets by combining NHANES and CDC data, refining inclusion criteria, and performing rigorous statistical analyses to support more accurate health assessments.

American Express, Break Through Tech AI

AI Fellow, Machine Learning Project Lead

Los Angeles, CA

June 2022 - April 2023

- Analyzed consumer campaign data to calculate arrival probabilities, optimizing resource allocation by identifying high ROI consumers.
- Oversaw a team of three in building a supervised learning ML pipeline, enhancing data insights for over 10.4 million financial records.
- Skilled in using Pandas, NumPy, and Scikit-learn for developing and debugging high-accuracy models with decision trees, neural networks, and random forests in Jupyter Notebook.

LEADERSHIP

Sustainable Los Angeles Grand Challenge

Lead Researcher

Los Angeles, CA

September 2023 - June 2024

- Managed innovative data-driven projects targeting environmental issues in Los Angeles, leveraging strong analytical skills to drive impactful research and collaborative solutions for community enhancement.
- Expert in using R and Python for in-depth statistical analyses, visualizing trends, and predicting outcomes in transportation data.
- Developed and implemented predictive models using ML techniques to analyze transportation needs and infrastructure effectiveness.
- Analyzed large-scale datasets from diverse sources such as LA Metro and CalEnviroScreen, ensuring robust data-driven insights.

DataResolutions

Lead Project Consultant, DataLearn Head, Consulting Advisor

Los Angeles, CA

Oct 2021 - June 2024

- Created knowledge graphs from NextJS data using Python scraping techniques and NetworkX for relationship visualization.
- Directed a team of five to develop an ML pipeline for IoT data on EpiData, implementing models for key insights from sensor data.
- Analyzed financial and merchant datasets, using a random forest model to identify spending patterns and inform decision-making.
- Conducted web scraping and HTML parsing on Zillow, extracting and analyzing data to identify key real estate market trends.
- Designed and taught data analytics workshops for over 380 undergraduates, focusing on Python, SQL, and Tableau.

Innovation Challenge, Young Tech Professionals Bootcamp

Product Manager, Developer

Los Angeles, CA

Mar 2022 - May 2023

- Coordinated comprehensive user research, competitive analysis, and designed wireframes, improving platform usability and market fit.
- Spearheaded design of a user-friendly parking reservation system for the 2028 LA Olympics.
- Expert in using Figma to create detailed wireframes, mockups, and prototypes that enhance user interaction and satisfaction.
- Translated business objectives into user-centric design solutions, driving enhanced engagement and market alignment through meticulous research and strategic design.
- Facilitated user-friendly platform development for young adult job seekers, applying design thinking to solve complex challenges and meet specific user needs.

HONORS and AWARDS

- Top Finalist, 13th Annual ASA DataFes & CourseKata April 2024
- Visa & Society of Women Engineers Scholarship May 2023
- Third Place Winner, Break Through Tech AI Competition at UCLA, MIT, and Cornell Tech AI Studio March 2023
- First Place Winner, Major League Hacking QWER Hackathon, Housing Insecurity Track February 2023

SKILLS

- Programming Languages:** Python, R, Microsoft Excel, SQL, C++, Tableau, Power BI, Git, HTML, CSS
- Machine Learning:** Supervised and Unsupervised Learning, NLP, Time Series Analysis, AI Ethics, Feature Engineering
- Tools:** Figma, NetSuite, Agile and Scrum, GIS, Canva, Jira, Slack, Google Analytics