

# Jane Zou

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## EDUCATION

### University of California, Los Angeles

Statistics and Data Science, Bachelor of Science, GPA: 3.90/4.00

### Cornell University

Machine Learning Foundations Certificate

## PROFESSIONAL EXPERIENCE

### PricewaterhouseCoopers

Data Science Intern, Products and Technology

Irvine, CA

June 2023 - August 2024

- Enhanced predictive ML model accuracy by conducting 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 Assistant 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.
- Achieved a 30% improvement in predictive model reliability through rigorous parameter optimization, iterative testing, and adjustments based on cross-functional feedback, significantly boosting 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.
- Led 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 high-accuracy predictive 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

Los Angeles, CA

Mar 2022 - May 2023

- Conducted 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.
- Led 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
- First Place, Major League Hacking QWER Hackathon, Housing Insecurity Track February 2023

## SKILLS

- Programming Languages:** Python, R, Microsoft Excel, SQL, Tableau, Power BI, Git, HTML, CSS
- Machine Learning:** Supervised and Unsupervised Learning, NLP, Time Series Analysis, AI Ethics
- Tools:** Figma, NetSuite, Agile and Scrum, GIS, Canva, AWS, Docker