

# Jane Zou

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## EDUCATION

### University of California, Los Angeles

Statistics & Data Science, Bachelor of Science

GPA: 3.91/4.00

## SKILLS

- **Programming Languages:** Python, R, SQL, C++, HTML, CSS, JavaScript, Tableau, Power BI, Microsoft Excel, Streamlit
- **Machine Learning:** Supervised & Unsupervised Learning, Natural Language Processing (NLP), Time Series Analysis, AI Ethics, Responsible AI, Feature Engineering
- **Tools & Platforms:** FAST API, OpenAI, Langchain Retrieval Augmented Generation (RAG), Figma, NetSuite, Agile & Scrum, GIS, Canva, Jira, Slack, Google Analytics, Git

## PROFESSIONAL EXPERIENCE

### PricewaterhouseCoopers

Data Science Intern

Irvine, CA

June 2023 - August 2024

- Automated global tax incentives matching with generative AI, reducing processing time by 99% & increasing accuracy by 85%.
- Created a frontend with Streamlit and a backend with FAST API, incorporating Azure Form Recognizer for document parsing, achieving over 99% accuracy and optimizing system efficiency.
- Enhanced predictive ML model accuracy through advanced demographic profiling & natural language processing techniques.
- Increased user engagement & digital service quality for a career exploration nonprofit by implementing effective online career tools.
- Advanced data visualization & decision-making capabilities by mastering Power BI 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 & Ophthalmology Journals, applying complex AI analytics to vast datasets to propel advancements in glaucoma research & 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 & iterative testing, enhancing decision-making accuracy.
- Enriched healthcare datasets by combining NHANES & CDC data, refining inclusion criteria, & 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, & Scikit-learn for developing & debugging high-accuracy models with decision trees, neural networks, & 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 & collaborative solutions for community enhancement.
- Expert in using R & Python for in-depth statistical analyses, visualizing trends, & predicting outcomes in transportation data.
- Developed & implemented predictive models using ML techniques to analyze transportation needs & infrastructure effectiveness.
- Analyzed large-scale datasets from diverse sources such as LA Metro & 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 & 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 & merchant datasets, using a random forest model to identify spending patterns & inform decision-making.
- Conducted web scraping & HTML parsing on Zillow, extracting & analyzing data to identify key real estate market trends.

### Innovation Challenge, Young Tech Professionals Bootcamp

Product Manager, Developer

Los Angeles, CA

Mar 2022 - May 2023

- Coordinated comprehensive user research, competitive analysis, & designed wireframes in Figma, improving platform usability.
- Translated business objectives into user-centric design solutions, driving enhanced engagement & market alignment through meticulous research & strategic design.
- Facilitated user-friendly platform development for young adult job seekers, applying design thinking to solve complex challenges & meet specific user needs.

## HONORS & 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 at UCLA, MIT, & Cornell Tech AI Studio March 2023
- First Place Winner, Major League Hacking QWER Hackathon, Housing Insecurity Track February 2023