

Jane Zou

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EDUCATION

University of California, Los Angeles

Statistics & Data Science, Bachelor of Science

GPA: 3.91/4.00

PROFESSIONAL EXPERIENCE

PricewaterhouseCoopers (PwC)

Irvine, CA

Data Scientist

June 2023 - August 2024

- Developed a Streamlit frontend & FAST API backend integrated with Azure Form Recognizer, leveraging Python & Docker, which achieved 99%+ accuracy & reduced processing time from 10 hours to 2 minutes.
- Improved predictive ML model accuracy by 20% through demographic profiling & NLP techniques with Scikit-learn & NLTK.
- Increased user engagement & digital service quality for a career exploration nonprofit by developing a Python chatbot within 3 weeks & utilizing Tableau & Plotly for enhanced data visualizations.

Jules Stein Eye Institute

Los Angeles, CA

Data Scientist

May 2023 - June 2024

- Co-authored six research papers in the American Glaucoma Society & Ophthalmology Journals, applying advanced AI analytics with R & Python on large datasets, contributing to advancements in glaucoma research & treatment strategies.
- Automated visual field detection systems by integrating 30+ years of patient data, improving diagnostic precision by 40%.
- Boosted model reliability by 30% through extensive parameter optimization & iterative testing, enhancing decision-making accuracy.
- Improved healthcare datasets by merging NHANES & CDC data, refining inclusion criteria to reduce noise by 25%, & conducting statistical analyses that increased health assessment accuracy by 15%.

American Express

Los Angeles, CA

Lead Machine Learning Engineer

June 2022 - April 2023

- Analyzed consumer campaign data to calculate arrival probabilities, optimizing resource allocation & targeting high ROI consumers, which led to an 80% increase in campaign effectiveness.
- Led a team of three in creating a supervised learning ML pipeline, which processed over 10.4 million financial records & improved model accuracy by 30%.
- Proficient in using Pandas, NumPy, & Scikit-learn to develop & debug high-accuracy models, including decision trees, neural networks, & random forests, within Jupyter Notebook.

LEADERSHIP

Sustainable Los Angeles Grand Challenge

Los Angeles, CA

Principal Investigator

September 2023 - June 2024

- Developed predictive ML models in Python, enhancing transportation needs assessments & infrastructure effectiveness by 35%.
- Analyzed datasets from LA Metro & CalEnviroScreen, providing insights that influenced decisions impacting 5 million residents.
- Authored a 30-page report & presented findings to LA representatives, shaping transportation & public policy decisions with implications for \$50 million in funding.

DataResolutions

Los Angeles, CA

Senior Strategy Consultant

Oct 2021 - June 2024

- Created knowledge graphs from NextJS data using NetworkX, visualizing 100,000+ data points to uncover valuable insights.
- Led a team of five in developing an end-to-end ML pipeline for IoT data, analyzing data from 500,000+ sensors.
- Analyzed financial & merchant datasets with random forest models in Scikit-learn, revealing spending patterns in \$1B of transactions.
- Scraped & parsed HTML data from Zillow using Python, analyzing 10,000+ real estate listings to uncover property market trends.

Innovation Challenge, Young Tech Professionals Bootcamp

Los Angeles, CA

Product Manager, Developer

Mar 2022 - May 2023

- Coordinated user research & competitive analysis, created wireframes in Figma, & implemented user-centric design solutions, achieving a 50% improvement in platform usability.
- Translated business objectives into design solutions, resulting in a 40% increase in user engagement & 35% better market alignment through strategic design & research.
- Developed a user-friendly platform for young adult job seekers by applying design thinking principles, leading to a 30% increase in user satisfaction & a 25% boost in platform adoption.

SKILLS

- Programming & Development:** Python, R, C++, SQL, React, HTML, CSS, JavaScript, TypeScript, Flask, FastAPI, Docker, VSCode, PyCharm, Jupyter Notebook, RStudio
- Data Management & Processing:** ETL/ELT, Data Cleansing, Feature Generation, Statistical Analysis, Hypothesis Testing, A/B Testing, Data Mining, Predictive Modeling, Data Wrangling
- Machine Learning & Analytics:** Scikit-learn, PyTorch, TensorFlow, Keras, NLTK, FastText, Natural Language Processing (NLP), Computer Vision (CV), Audio Analysis
- Data Visualization & Reporting:** PowerBI, Streamlit, D3, Plotly, Seaborn, Matplotlib
- Tools & Platforms:** Databricks, Agile, Scrum, Kanban, Azure DevOps, Jira, Confluence, GitHub, Azure Pipelines, Postman, Risk Management, Stakeholder Communication