Olivia Nguyen

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EDUCATION

University of California, Los Angeles (UCLA)   Expected Jun. 2027

Bachelor of Science in Statistics & Data Science | Minor in Data Science Engineering

Relevant Coursework: Data Structures & Algorithms, Data Science, Machine Learning, Data Analysis & Regression, Probability, Statistical Models & Data Mining, Computational Statistics, Optimization, Discrete Math, Linear Algebra

EXPERIENCES

AI Engineer Intern   Jun. 2025 - Aug. 2025

AGENTS.inc | Berlin, Germany

- Developed a company website finder AI Agent using semantic processing, Beautiful Soup, ValueSERP, and Gemini LLM
- Matched URLs for 35K+ companies with **semantic similarity** ranking and metadata validation
- Optimized large-scale processing with **asynchronous Python workflows** for faster performance

Machine Learning Research Assistant   Apr. 2025 - Present

UCLA Mobility Lab |Los Angeles, CA

- Used **Python**, **pandas**, **folium**, **plotly**, and **scikit-learn** to analyze 3M+ GPS staypoints and detect anomalies in the data
- Applied K-Means clustering and custom heuristics to segment mobility patterns in spatiotemporal datasets
- Built data preprocessing pipelines and visualizations with numpy, matplotlib, and seaborn

Data Research Assistant   Oct. 2024 - Present

David Geffen School of Medicine at UCLA |Los Angeles, CA

- Used **R**, **tidyverse**, and **ggplot2** to analyze dietary and microbiome data from IBS patients across projects including Vioscreen assessments and menstrual cycle tracking
- Built end-to-end data pipelines for biomarker discovery and statistical analysis of gastrointestinal disease mechanisms
- Applied linear modeling, multivariate analysis, and visualization techniques to extract insights from clinical datasets

Software Developer   Apr. 2025 - Jun. 2025

Zeitios | Remote

- Collaborated on full-stack AI tutoring platform using **React** and **Node.js** to auto-generate interactive courses and videos
- Integrated **OpenAI**, **ElevenLabs**, and **MagicSlides** APIs to create AI-generated content with voiceovers and slides
- Developed a conversational **NLP** chatbot to guide students through tasks and explain concepts in real time

PROJECTS

NBA Game Prediction

- Predicted the outcomes of NBA games in 2023 and 2024 based on past game results with ~70% accuracy using Python
- Engineered features using weighted averages of past game stats, applied L1-regularized Logistic Regression for feature selection, and evaluated models including **Logistic Regression**, **SVM** (linear/RBF), **LDA/QDA**, **KNN**, and **Random Forest**

Skin-tuition: Unmasking Skincare Secrets

- Analyzed data from 1,400+ skincare products, focusing on ingredient functionality, customer feedback, and profit
- Built a Scrapy scraper with CSS selectors to collect data on 1,100+ ingredients
- Applied feature engineering with Boolean-classification and percentile-based features to categorize and rank ingredients
- Improved matching of 45,000+ messy ingredients by 80% and doubled dataset alignment accuracy using **TF-IDF vectorization** and **cosine similarity**

SKILLS

Programming Languages: Python (PyTorch, TensorFlow), C++, R, Java, SQL, HTML/CSS, JavaScript

Tools: Tableau, Power BI, Excel, Apache Hadoop

Interests: Baking, Cooking, Exploring New Places, Playing Diner Dash