Naren Prakash

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EDUCATION

University of California, Los Angeles — June 2025
Bachelor of Science, Statistics and Data Science — *Los Angeles, CA*

- **GPA:** 3.83/4.0
- **Relevant Coursework:** Data Mining, Monte Carlo Methods, Natural Language Processing, Financial Modeling

WORK EXPERIENCE

Bruin Sports Analytics — Sept. 2024 – Present
Researcher and Tennis Consulting Analyst — *Los Angeles, CA*

- Designed interactive visualizations and match reports for the UCLA men's tennis team, helping players and coaches refine game strategies and opponent analysis
- Built a Bayesian route target probability prediction model using NFL play-by-play data from nflfastR, providing insights that can improve play-calling efficiency and defensive adjustments

Halliburton — June 2024 – Sept. 2024
Data Science and Machine Learning Intern — *Houston, TX*

- Developed an autoencoder model that improved anomaly detection in truck sensor data, enhancing predictive maintenance and operational efficiency
- Implemented a transformer-based architecture that achieved 95 percent pattern recognition accuracy in time series data, leading to improved forecast precision for predictive analytics
- Engineered a data generation script that optimized GPU training for machine learning models, reducing training time by over 90 percent and enhancing overall model efficiency

Neoage Services — June 2023 - Sept. 2023
Data Analyst Intern — *Houston, TX*

- Analyzed raw page data to design an advanced parser that systematically extracts and stores critical bank statement information, significantly enhancing data accuracy and operational efficiency
- Designed and implemented a Python script that automated bank statement generation, cutting production time by 95 percent and boosting departmental workflow efficiency
- Applied Python Imaging Library and OpenCV to create and manage high-quality images of project assets, ensuring consistent documentation and asset integrity

PROJECTS

Romantic Comedy Comprehensive Text Analysis — March 2025

- Applied NLP techniques such as tokenization, lemmatization, n-gram analysis, sentiment analysis, and topic modeling with Latent Dirichlet Allocation (LDA)
- Created predictive models using Random Forest and Large Language Models (LLMs) for time period classification
- Fine-tuned DistilBERT for movie classification with a supplemental dataset of 2,859 movie scripts

Airbnb Geostatistical Price Prediction Model — March 2025

- Produced a geostatistical price prediction model for Airbnb listings using variograms and kriging, leveraging spatial correlation in pricing data
- Used raster-based price maps to visualize trends in spatial correlation

Statistical Stock Portfolio Optimizer — December 2024

- Conducted stock optimization using historical returns from Yahoo Finance, with the use of models such as the Merton model, constant correlation model, single-index model, multigroup model, and multi-index model
- Evaluated the portfolio risk and return under various conditions, considering returns with and without short sales and under different correlation assumptions

SKILLS, EXTRACURRICULARS, & INTERESTS

- **Hard Skills:** Python, R, SQL, Java, Linux, Zsh, Spark, Azure, Tableau, PowerBI, CUDA, Git, Microsoft Suite
- **Soft Skills:** Technical Communication, Solution Development, Team Collaboration, Problem Resolution, Precision, Decision-Making, Project Coordination
- **Extracurriculars**: UCLA Radio (Sports Staff), Statistics and Data Science Club (Mentor), CityLab (Module Director)
- **Interests:** Sports, Research, Video Games, Weightlifting, Romantic Comedies, Language Learning, One Piece