Benjamin Khothsombath

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EDUCATION

University of California, Los Angeles   SEP 2018 - JUN 2022

Bachelor of Science in Applied Mathematics and Statistics

- Major GPA: 3.972
- Specialization: Computing
- Awards & Honors: Dean's Honors List every quarter

COURSEWORK

Programming: Python with Applications, Programming for Internet

Machine Learning: Statistical Optimization in R, Data Mining and Statistical Models, Mathematics of Machine Learning

Statistics and Math: Linear Algebra, Probability Theory, Mathematical Statistics, Linear Models, Applied Linear Regression, Experimental Design and Analysis, Mathematical Modeling, Optimization, Applied Numerical Methods, Monte Carlo Methods

EMPLOYMENT HISTORY

Peer Learning Facilitator - UCLA Academic Advancement Program   SEP 2020 - PRESENT

- Mentored students from historically underserved and underrepresented groups to increase retention rates by providing a safe space for academic discussion
- Created worksheets and led peer learning sessions in linear algebra

Access Control Monitor - UCLA Housing   NOV 2019 - APR 2020

- Ensured the safety of residents and guests during late hours while keeping a watchful eye for suspicious activity
- Responsible for data entry of guests and reporting of incidents, maintenance orders, and tech issues

PROJECTS

- Performed data analysis and built a linear regression model on a dataset of cars in R to predict car prices
- Designed a garden sprinkler experiment to select sprinkler settings that maximize spray range while minimizing water consumption
- Analyzed a dataset of breast cancer patients and built multiple statistical models to predict breast cancer diagnosis
- Conducted data analysis on a dataset of penguins in Python and built machine multiple machine learning models to predict penguin species

ADDITIONAL SKILLS

Programming Knowledge: C++, R, Python, Pandas, NumPy, Scikit-learn

Technical Skills: Data visualization using ggplot2 and matplotlib/seaborn, Implementation and Performance Assessment of Statistical Models, LaTeX