YUTIAN YANG

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EDUCATION

University of California, Davis • College of Letters and Science

09/2021 - 06/2023

Master of Science • Statistics

University of California, Davis • College of Letters and Science

09/2017 - 06/2021

Bachelor of Science • Statistics | Economics

WORK EXPERIENCE

Data Analyst Intern – Education Services Organization

06/2022 - 08/2022

Allschool Inc., Remote

- Utilized Google Analytics for a data-driven analysis of regional and platform-specific user traffic and revenue, leading to optimized impressions targeting and increased customer engagement.
- Leveraged Python and the Selenium package to design a real-time web scraper, providing centralized class schedules and accelerating the selection process by 50%.
- Employed SQL and BI tools to evaluate user behavior across multiple advertising channels, informing strategic decision-making and resulting in a 15% reduction in project budget and an increase in daily active users.
- Contributed to the development of a key metrics dashboard highlighting active users, daily traffic, and revenue, thereby improving business visibility and supporting data-driven decision making.

Research Assistant - Academic Research

07/2020 - 09/2020

UC Davis Department of Economics, Davis, CA

- Utilized generalized linear model (GLM) and Logistic Regression to analyze behavioral trends in procrastination and present-biased behavior in a study in collaboration with Professor Anujit Chakraborty.
- Enhanced the reliability of study results by employing Bootstrapping resampling techniques to expand the sample size to approximately 20,000 data points.
- Improved prediction accuracy of procrastination behavior within the test dataset by addressing multicollinearity among predictor variables using Lasso Regression.
- Facilitated industry application by uncovering procrastination patterns, offering insights for tech companies to develop user-centric products and services, potentially enhancing user satisfaction, retention, and success.

Data Analyst Intern - Technology Consulting

06/2019 - 09/2019

Launchpad Project Management, Davis, CA

- Utilized R and SQL for comprehensive market analysis and database management across multiple portfolios, including enabling the development of a predictive model for real estate investment strategies.
- Applied machine learning algorithms and statistical methods like generalized linear regression and logistic regression to analyze survey data, extracting critical insights for the portfolios.
- Employed advanced data visualization tools like Tableau to present data analysis results, facilitating strategic decision-making and enhancing team understanding.

PROJECTS

Impacts of Vaccination Policy on COVID-19 Cases (R)

 UC Davis - STA 237A Time Series Analysis

- Teamed up to investigate the impact of government vaccination policies on COVID-19 cases across selected countries using ARIMA and ARIMAX time series models.
- Managed data preparation processes involving merging tables, data filtering, and the creation of a "weekly contrast" variable using "Our World in Data".
- Leveraged data visualization in R to effectively communicate findings and performed inferential analysis on model predictions, contributing to a broader understanding of policy effectiveness.

Classification of Mushrooms: Edible or Poisonous (Python)

UC Davis - STA 208 Statistical Learning

- Collaborated on a team project developing machine learning and deep learning models, including Random Forest, Kernel SVM, and Convolutional Neural Networks (CNN) to classify mushroom images into edible or poisonous.
- Applied advanced techniques such as grid search for hyperparameter tuning and transfer learning using pre-trained ResNet50
 model to improve the efficiency and accuracy of the classification models.
- Critically evaluated model performance, suggesting potential enhancements through the exploration of alternative pre-trained models or architectural adjustments.

SKILLS & RELEVANT COURSEWORK

- Programming Skills: (5+ yoe) Proficient in SQL, Python (Pandas, Scikit-learn, TensorFlow), R
- Data Science Tools: Github, Google Cloud Platform (GCP), Google Analytics, Selenium, Tableau, LaTeX, AWS, Power BI
- Coursework: Advance Statistical Computing, Algorithm Design & Analysis, Econometrics, Optimization of Big Data Analytics, Statistical Machine Learning I, Statistical Methods of Machine Learning, Time Series Analysis, Probability Theory