

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

- Business Analyst Intern** – Education Services Organization 06/2022 – 08/2022
Allschool Inc., Remote
- Conducted regional and platform-specific analysis of user traffic and revenue, utilizing Google Analytics to identify optimal areas for impressions targeting.
 - Leveraged Python and the Selenium package to develop a web scraper, providing real-time and centralized class schedules for customers, resulting in a 50% acceleration of the selection process.
 - Contributed to developing a dashboard highlighting key metrics, including active users, daily traffic, and revenue.
 - Utilized SQL and the BI platform to evaluate user behavior across various advertising channels, informing strategic decision-making.
 - Drove a 15% reduction in the project budget and increased daily active users through data-driven analysis and decision-making.
- Research Assistant** – Academic Research 07/2020 – 09/2020
UC Davis Department of Economics, Davis, CA
- Collaborated with Professor Anujit Chakraborty to analyze procrastination and present-biased behavior, utilizing GLM (Lasso Regression) and Logistics Regression models.
 - Employed resampling techniques, specifically Bootstrapping, to expand the sample size to approximately 20,000 data points.
 - Analyzed a sizable dataset, determining confidence intervals and standard errors for the probability of procrastination.
 - Utilized Lasso Regression to mitigate multicollinearity among predictor variables and accurately predict the likelihood of procrastination within the test dataset.
- Analyst Intern** – Technology Consulting 06/2019 – 09/2019
Launchpad Project Management, Davis, CA
- Played an integral role in developing three portfolios across real estate, business development, and politics through database building.
 - Collaborated with a 12-member team to analyze surveys and employ statistical concepts supporting a political campaign.
 - Conducted a comprehensive market study and utilized R to develop and implement a linear regression model to predict the future value of properties on behalf of a local real estate company.

PROJECTS

- Impacts of Vaccination Policy on COVID-19 Cases (R)**
UC Davis - STA 237A Time Series Analysis
 - Collaborated with a team of 2 classmates to evaluate the effectiveness of government vaccination policies in chosen countries, employing time series models.
 - Prepared data from "Our World in Data" for forecasting and analysis by merging tables, filtering selected countries' data, and generating a "weekly contrast" variable.
 - Constructed ARIMA and ARIMAX models, combining ANOVA analysis with time series analysis.
 - Employed data visualization techniques in R to present findings and conducted an inferential analysis of model predictions for all selected countries.
- Classification of Mushrooms: Edible or Poisonous (Python)**
UC Davis - STA 221 Adv Stat Computing
 - Collaborated with a team of 2 classmates to develop machine learning and deep learning models for classifying mushroom images into edible or poisonous categories.
 - Utilized a dataset of over 3000 mushroom images, with 1181 images classified as edible and 2220 images labeled as poisonous.
 - Employed Random Forest, Kernel Support Vector Machines (Kernel SVM), and Convolutional Neural Networks (CNN) for the classification task. Utilized grid search for hyperparameter tuning in Random Forest and Kernel SVM.
 - Leveraged transfer learning with the pre-trained ResNet50 model for CNN.
 - Conducted a comprehensive evaluation of the models' performance, identifying the need for further exploration of different pre-trained models or adjustments to the model architecture to improve performance.

TECHNICAL & COMMUNICATION SKILLS

- Over 5 years of experience in SQL, Python (Pandas, Scikit-learn, TensorFlow), R, Tableau
- Proficient in Data Analysis, A/B testing, Machine Learning, and Data Visualizations
- Natural Languages: English, Mandarin Chinese