

YUTIAN YANG

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EDUCATION

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- 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
- **Relevant 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.

SKILLS & TOOLS

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- Programming Skills: 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

WORK EXPERIENCE

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- R&D Strategy Analyst Intern** – Onshape by PTC 06/2025 – 08/2025
Boston, MA
- Built and evaluated multiple **unsupervised** anomaly detection models (**Prophet** + **Isolation Forest**, Merlion, LSTM-AE) for API telemetry monitoring; selected and deployed Prophet-based pipeline for best performance, interpretability, and ease of deployment.
 - Applied **AWS Bedrock's Titan Embeddings** and **Claude 3.5 Sonnet** for clustering, naming, and sentiment analysis of NPS feedback, extracting key themes to support product insights from unstructured text.
 - Conducted keyword analysis on AI Advisor open-field queries to assess reference URL coverage, uncover content gaps, and improve user-facing query resolution.
 - Developed **Looker dashboards** to track anomaly alerts and AI-driven insights, enhancing visibility across teams and automating **Slack-based** reporting to reduce manual monitoring efforts.
- Data Science Intern** – Pinecone 06/2024 – 08/2024
New York, NY
- Designed and built the Book of Business and Account 360 dashboards using **SQL** and **Sigma**, improving sales operations by 15%. Implemented Row-Level Security (RLS) for tailored views, and documented processes in Notion, reducing onboarding time by 30% and ensuring consistent use across teams.
 - Developed the "dim_assistants" schema and implemented it in the pipeline using **BigQuery** and **DBT**. Created the Pinecone Assistant dashboard using **SQL** and **Sigma**, enabling comprehensive tracking of metrics. Facilitated cross-team collaboration, leading to a 25% increase in product insights.
 - Conducted churn analysis using **Python** and Random Forests, identifying 5 key metrics and setting up alerts, reducing churn by 10%. Overcame data limitations and improved data collection, projected to boost accuracy by 20%.
- Data Analyst Intern** – Allschool 06/2022 – 08/2022
San Mateo, CA
- Enhanced impression targeting strategies and boosted customer engagement through **A/B testing** and segmentation analysis of user traffic and revenue across regional and platform data utilizing **Google Analytics**.
 - Evaluated user behavior across multiple advertising channels, leading to a 15% reduction in project budget and an increase in daily active users employing **SQL** and **BI tools**.
 - Designed a real-time web scraper with **Python** and **Selenium**, accelerating the class selection process by 50%.
 - Developed a key metrics dashboard for active users, daily traffic, and revenue, improving business visibility and supporting data-driven decision making using **Google Looker Studio**.
- Research Assistant** – UC Davis Department of Economics 07/2020 – 09/2020
Davis, CA
- Analyzed behavioral trends in procrastination and present-biased behavior using a **generalized linear model (GLM)** and **Logistic Regression** in a study 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.
 - Addressed multicollinearity among predictors and improved prediction accuracy of procrastination behavior variables with regularization 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.

PROJECTS

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- Classification of Mushrooms: Edible or Poisonous (Python)** UC Davis - STA 221 Advanced Statistical Computing
- 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 by exploring alternative pre-trained models or architectural adjustments.