

SUMMARY

Data Scientist with experience building data pipelines, applied machine learning models, and analytics workflows across large-scale, real-world data. Strong foundation in statistics and translating complex findings into clear, actionable insights for technical and non-technical audiences. Seeking product and marketing data science roles where analytical rigor and clear communication drive measurable impact and informed decision making.

EDUCATION

- Sep 2021 - Jun 2025 **Bachelor of Science in Statistics and Data Science** *University of California, Santa Barbara (Santa Barbara, CA)*
- Volunteer for Carpentries Workshops: Data Analysis with R and Python, GitHub, Automation and Make
 - Selected as moderator for the annual Data Science Capstone Showcase career panel
 - Relevant Coursework: Machine Learning, Big Data Analytics, Cloud Computing, Computational Linguistics, Time Series, ArcGIS, Database Management, Design of Experiments, Data Communication and Visualization

TECHNICAL SKILLS

- Languages Python, SQL, R
- Platforms Apache Spark, Databricks, Google Cloud Platform, Git
- Statistics Statistical Analysis, Experimental Design, A/B Testing
- Modeling Scikit-Learn, PyTorch, Marketing Mix Modeling, Regression, Forecasting
- Analytics PowerBI, Excel, Data Visualization and Storytelling

WORK EXPERIENCE

- June 2025 - Current **Data Science Research Lead and Machine Learning Engineer** [Sound Ethics \(Remote\)](#)
- Lead the university capstone program, mentoring and overseeing 50+ student researchers across multiple universities on experimental design and ML methods
 - Build and deploy FastAPI backend services and ML pipelines powering AI music generation and analytics workflows
 - Design scalable data preprocessing workflows for large-scale audio and metadata, improving pipeline efficiency for fine-tuning experiments
 - Partner with executive leadership to translate experimental results into product and system architecture strategy
- Jan 2025 - Jun 2025 **Data Science Researcher**
- Trained deep learning models (CNNs, ResNet18, SpecTTRa) to detect AI-generated music across multiple generators
 - Preprocessed large-scale audio datasets to convert raw audio into mel spectrograms using Librosa and PyTorch
 - Improved model generalization across unseen AI generators by increasing accuracy by 80%+ over baseline classifier
 - Presented model performance analyses and visualizations to sponsors, directly informing platform strategy around AI music authentication
- Sep 2022 - Jun 2025 **Undergraduate Learning Assistant for Data Science** [UC Santa Barbara Computer Science Department](#)
- Supported 150+ students each quarter in weekly office hours and discussion sections with technical tutoring
 - Explained complex statistical and programming concepts to students using clear examples and live demos
 - Contributed to improved student comprehension by reinforcing core programming and statistical concepts
- Aug 2024 - Sep 2025 **Peer Advisor** [UC Santa Barbara Applied Probability and Statistics Department](#)
- Led drop-in advising hours to provide academic support and guidance to statistics students
 - Served as PSTAT Education Abroad Advisor, managing study abroad planning, clearances, and databases

PROJECTS

- Jan 2026 - Feb 2026 **Marketing Mix Modeling and Revenue Forecasting**
- Built a Bayesian marketing mix model in Python to quantify channel-level ROI and forecast revenue impact across paid media channels
 - Synthesized MMM outputs into clear insights and visualizations for a non-technical audience
- Mar 2025 - Jun 2025 **Voter Data Analysis**
- Built data pipelines in Apache Spark on Databricks to analyze large-scale voter and demographic datasets
 - Used Spark SQL and data visualization techniques to uncover regional trends and deliver actionable insights
 - Communicated statistical findings into policy relevant recommendations for targeted civic engagement strategies
- Jan 2025 - Mar 2025 **Movie Recommender System**
- Developed a hybrid recommender combining content and collaborative filtering to improve personalization
 - Implemented cascade filtering and ranking; evaluated model performance through qualitative analysis

ADDITIONAL INFORMATION

- Jan 2023 - Current **English Tutor** [Ringle \(Remote\)](#)
- 3+ years leading 1:1 lessons and providing feedback for non-native English speakers, strengthening communication skills
- Apogee Adventures Participant**
- Europe Coast to Coast Trip: biked from Amsterdam to Venice for 4 weeks
 - Pacific Coast Trip: biked from Eugene to San Francisco for 3 weeks