

Tess Ivinjack

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Summary

Data Scientist with experience building data pipelines, applied machine learning models, and analytics workflows on real-world datasets. 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 I can apply Python and SQL to solve applied modeling and analytics problems that support data informed decision making.

Education

University of California, Santa Barbara | Graduated 06/2025

Bachelor of Science (B.S.), Statistics and Data Science | GPA: 3.79

Dean's List: Awarded all quarters except during study abroad term

- Volunteer for Carpentries Workshops: Data Analysis with R and Python, GitHub, Automation and Make
- Selected to be the moderator for 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

Data Science & Analytics Experience

Work Experience

Sound Ethics | Remote

Data Science Research Lead and Machine Learning Engineer | 06/2025 - Present

- Lead the university capstone program, mentoring multiple research teams on experimental design and ML methods
- Build backend services (FastAPI) and ML pipelines for audio generation, analytics, and core platform workflows
- Design data preprocessing workflows for large-scale audio and metadata, enabling more efficient fine-tuning

University of California, Santa Barbara Computer Science Department | Santa Barbara, CA

Undergraduate Learning Assistant for Introduction to Data Science Course | 09/2022 - 06/2025

- 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

University of California, Santa Barbara Statistics Department | Santa Barbara, CA

Peer Advisor | 08/2024 - 09/2025

- 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

AI-Generated Music Detection – Sound Ethics | 01/2025 - 06/2025

- Trained deep learning models (CNNs, ResNet18) to detect AI-generated music across multiple generators
- Preprocessed large scale audio datasets and generated spectrograms using Librosa and PyTorch
- Evaluated model generalization across unseen AI generators, improving accuracy 80%+ over baseline
- Translated complex model results into clear insights and visualizations guiding sponsor decision making

Voter Data Analysis | 03/2025 - 06/2025

- 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

Movie Recommender System | 01/2025 - 03/2025

- 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

- **English Tutor, Ringle:** 3+ years leading lessons and providing feedback for non-native English speakers
- **Apogee Adventures Participant:** Europe Coast to Coast Trip (biked from Amsterdam to Venice) & Pacific Coast Trip (biked from Eugene to San Francisco)
- **Skills:** Python, R, SQL, Power BI, Excel, PyTorch, Databricks, Git, Statistical Analysis, Data Visualization