Anabelle Gutman

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EDUCATION

University of California, Santa Barbara — **Santa Barbara, California**
Bachelor of Science in Statistics and Data Science, Minor in Philosophy — Graduated: Mar. 2024
- **Club Involvement:** UCSB Data Science Collaborative (Treasurer & Tutor), Data Science UCSB (Project Member), UCSB Actuarial Association (Member) — 2022–2024

PROFESSIONAL EXPERIENCE

FunderStar — **Los Altos, California**
Contract Software Engineer — May 2025 – Present
- Building and customizing a full-stack venture capitalist connection platform using React, Firebase, and Airtable
- Designing an intricate database to track referral chains, investment rounds, and founder-investor relationships across funding stages
- Engineering an AI-driven matching system to connect VCs by thesis and sector focus, enabling smarter deal flow and network expansion
- Collaborated with leadership to transform product vision into actionable solutions, bridging non-technical perspectives with technical insights

Well3 Health — **Belmont, California**
Contract Data Scientist — Jan. 2023 – Jun. 2023, Apr. 2025 – Present
- Engineering and deploying a full-stack prescription system that reduces manual entry errors and streamlines processing across doctors, pharmacies, and storage, improving fulfillment accuracy and speed
- Developing an automated tracking and alert system that reduces physician response delays, accelerating prescription processing for urgent cases.
- Leveraging Google Analytics, R, and Tableau to uncover key user behavior patterns, increasing user engagement by 25%
- Identifying new underserved markets through demographic analysis in R, supporting strategic expansion and improving access to care

Interstellar Lab — **Paris, France**
Machine Learning/Data Science Intern — Sep. 2024 – Feb. 2025
- Designed and deployed machine learning and time series models (HMM, ARIMA, SARIMAX) to simulate and optimize controlled biofarm behavior, improving energy efficiency and informing next-gen BioPod development
- Built computer vision pipelines using monocular depth estimation, NDVI analysis, and YOLO models, enabling real-time plant growth tracking and health alerts to be integrated into the next-generation BioPod Model Orion
- Developed a suite of Python APIs to process camera data, trigger plant health alerts, and store NDVI trends via a RESTful interface with SQLite integration
- Led research efforts to generate and curate high-quality datasets for training machine learning models, enabling automation and improved monitoring within the BioPod system
- Collaborated with cross-functional teams across software, plant science, and engineering to deliver rapid solutions, applying object-oriented design and quickly learning unfamiliar disciplines to drive innovation

San Mateo County Sheriff's Office — **Redwood City, California**
Investigations Bureau Crime Analyst Intern — Jun. 2023 – Aug. 2023
- Discovered long-term crime trends through multi-year analysis in R and Excel, producing bulletins that informed patrol strategies and resource allocation across departments
- Built and documented OSINT tools for investigating active crimes via social media, enabling detectives to automate digital evidence collection and increasing investigative reach
- Developed a user-friendly OSINT site that enabled detectives without technical backgrounds to use advanced digital investigation tools
- Used R to analyze international wire transfer data and detect fraudulent transfers

LEADERSHIP EXPERIENCE & OTHER PROJECTS

Instrument Translator App — **Jun. 2025 – Present**
Audio ML Engineer
- Design and develop a real-time musical translator app that converts hummed melodies into instrument-specific notation (guitar tabs, piano, drums) using Web Audio API and pitch detection algorithms
- Solve complex musician communication barriers by automating the translation of vocal ideas into playable notation across instruments

Crime Prediction Machine Learning Project — **Mar. 2023 – Jun. 2023**
Project Lead/Data Scientist
- Created multiple machine learning models using a Chicago Crime Statistics dataset to predict whether someone would be arrested for committing a homicide based on the time of year and location
- Evaluated models in R (LDA, Logistic Regression, KNN, Random Forest) to select optimal predictors for homicide arrest classification

SEVA Travel Program — **Sep. 2016 – Aug. 2020**
Founder
- Created a philanthropic travel program that enables groups of students of all backgrounds and economic statuses to plan and fundraise for equitable, unique, and immersive academic service experiences driven by the United Nations Sustainable Development Goals
- Mentored and managed ~50 students in developing service trips; co-authored a 50-page guidebook to ensure the program's long-term success

SKILLS & INTERESTS

Core: Machine Learning, Computer Vision, Time Series Forecasting, Deep Learning, Data Analysis, Data Visualization, Image Segmentation, A/B Testing, API Development, Hyperparameter Tuning, Data Preprocessing, Data Engineering, Big Data, OSINT, Cross-functional Collaboration
Tools & Programming Languages: Python, R, SQL, SAS, Stata, HTML, JavaScript, CSS, Bash, Git, Apache Spark, Flask, Dash, React, Firebase
Libraries & Frameworks: Pandas, NumPy, Scikit-learn, OpenCV, PyTorch, TensorFlow, Keras, Seaborn, Statsmodels
Cloud & Analytics: AWS, GCP, Google Analytics, Airtable, Tableau, Power BI, Microsoft Excel
Languages: English (native), French (basic)
Continued Learning: *Generative AI with Large Language Models* (DeepLearning.AI & AWS, in progress), *Airtable Builder Certification* (Airtable Academy, in progress), *French with the Michel Thomas Method* (self-paced, ongoing)