

Matthew (Matt) Ohanian

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Data Scientist and Machine Learning Engineer with a track record of shipping production ML systems and Generative AI solutions. UC Berkeley AI Hackathon winner (Anthropic Track).

EXPERIENCE

Full-Stack AI Engineer

California University of Science and Medicine

January 2026 - Present

- Building source-grounded healthcare RAG backend and privacy-first cross-platform mobile app for MS caregiver support in collaboration with physicians and medical students at California University of Science and Medicine
- Designed 5-stage RAG pipeline (guard rails, HyDE, hybrid vector+BM25 retrieval, FlashRank reranking, grounded generation) passing a 90-example eval with 1.000 Recall@5, 0.851 MRR, 0.896 faithfulness, and 1.000 no-answer success
- Engineered crisis detection, prompt injection defense, and scope detection for healthcare-sensitive queries with self-auditing citation enforcement

Machine Learning Engineer & Consultant

Remote

EcoRecycle

January 2026 - Present

- Trained and evaluated regression-based vehicle pricing models for an end-of-life vehicle auction platform used by automotive recyclers
- Recommended MLOps improvements including recurring retraining, validation-set comparison, drift monitoring, model promotion gates, rollback-aware deployment, and structured feedback capture

Data Scientist

San Francisco, CA

Qventus

February 2025 - June 2025

- Developed surgical case prediction models using ensemble methods (XGBoost, LightGBM) with cross-validation on healthcare snapshot data, optimizing OR scheduling for hospital partners
- Built real-time inference MLOps pipelines on AWS SageMaker with model deployment, latency optimization (sub-50ms), and automated monitoring, processing 100K+ daily predictions while tracking data drift and model performance
- Engineered 50+ predictive features from healthcare data using Snowflake SQL with automated feature validation and data quality checks
- Applied Transformers (BERT via Hugging Face) to surgical procedure text to compute semantic similarity and cluster cases, helping clinicians identify related procedures and streamline case review

Data Scientist

San Francisco, CA

Raydiant

August 2024 - February 2025

- Architected ETL pipelines using AWS Glue, S3, Lambda, and Athena to process 3M+ customer records, reducing pipeline errors by 45%
- Built churn prediction model achieving 85% AUC-ROC with SHAP analysis, enabling targeted retention campaigns
- Created real-time Salesforce dashboards for leadership team, driving data-driven decision making

Data Scientist

Cape Town, South Africa (Remote)

Axaitech

May 2022 - August 2022

- Built 11-class cancer classification model using deep learning, neural networks, and ensemble methods, achieving 95% accuracy while reducing false positives by 40% vs. baseline
- Applied Random Forest feature selection to reduce gene expressions from 58,000 to 16 critical biomarkers without accuracy loss
- Presented findings to clinical stakeholders, informing diagnostic workflow improvements

PROJECTS

InDaCapitol - Congressional Stock Trade Predictor (Python, LightGBM, Supabase, Next.js, React, FastAPI)

Production App

- Built production full-stack ML system with daily ETL across 6+ sources, parsing 14K+ disclosures into 16.7K feature vectors and 16.6K predictions
- Trained June 2026 segmented LightGBM buy/sell models: classifiers at 0.695/0.697 AUC and regressors at 0.0813/0.0774 MAE
- Shipped Next.js/Vercel dashboard with prediction badges, 99.9%/99.6% feature/prediction coverage, 73.3% realized accuracy, and stable drift

JobLens - Privacy-First Job Email Classifier (Transformers.js, ONNX, WebAssembly)

Chrome Extension

- Published Chrome Web Store extension with on-device inference using Transformers.js + ONNX/WebAssembly, keeping email classification fully in-browser
- INT8 quantized for browser-edge deployment, reducing model size from 128MB to 34MB (73% reduction) while preserving accuracy
- Fine-tuned BAAI/bge-small-en-v1.5 with custom classification head on 28,500 emails (20.5k real + 8k synthetic via DeepSeek/Ollama) with curriculum learning across data formats

EDUCATION

University of San Francisco

San Francisco, CA

Master of Science in Data Science, GPA: 3.9/4.0

July 2025

University of California, Los Angeles

Los Angeles, CA

Bachelor of Science in Data Theory, GPA: 3.7/4.0

June 2023

TECHNICAL SKILLS

Languages & Frameworks: Python, SQL, R, PyTorch, TensorFlow, scikit-learn, Transformers, Hugging Face, FastAPI

Machine Learning: XGBoost, LightGBM, Random Forest, Deep Learning, Neural Networks, NLP, Computer Vision, Feature Engineering

Cloud & MLOps: AWS (SageMaker, Glue, Lambda, S3, Athena), Snowflake, Docker, Kubernetes, MLflow, W&B, CI/CD

Model Deployment: ONNX, Model Quantization, Real-time Inference, Model Serving, REST API, Model Monitoring, A/B Testing

Generative AI: LLM APIs (Claude, GPT-5, Gemini, Mistral, DeepSeek, Grok, Ollama), LangChain, CrewAI, Multi-Agent Systems, Embeddings, Synthetic Data

Data Engineering: PostgreSQL, Supabase, PySpark, Redis, Celery, ETL Pipelines, Salesforce, Pydantic, Plotly, Tableau, Git