

Sadaf Amouzegar

AI/ML Engineering

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EXECUTIVE SUMMARY

A seasoned machine learning leader with 10+ years of experience designing and scaling ML infrastructure and platforms. Proven track record of building performant ML systems serving millions of users while leading distributed technical teams. Strong expertise in productionizing ML models, optimizing infrastructure, and driving technical excellence across organizations.

AREAS OF EXPERTISE

- LLMs & Conversational AI
- Technical Leadership & Strategy
- Deep Learning & Neural Networks
- NLP & Computer Vision
- Distributed ML Systems
- Model Training & Optimization
- ML Operations & Scaling
- ML Infrastructure & Platform Design

EDUCATION

California Institute of Technology, Pasadena, CA | B.S. in Computer Science

06/2015

WORK EXPERIENCE

Basil Systems - Remote

06/2025 – Present

VP of AI Engineering

- Lead AI strategy for predictive analytics and regulatory intelligence platforms with a strong focus on model safety, reliability, and governance
- Architect scalable ML pipelines integrating LLMs, graph databases, and real-time FDA data ingestion
- Designed and implemented a safety signaling platform analyzing correlations between FDA adverse events, recalls, and device approvals to identify emerging risk patterns

Dewey Labs - Remote

02/2025 – 06/2025

AI Engineer

- Designed and implemented ethical AI workflows and risk-scoring systems using Python and Ruby, prioritizing fairness, explainability, and safety
- Built LLM-based document analysis and classification pipelines powering decision-support tools
- Contributed to user-facing product architecture using Ruby on Rails
- Implemented explainability and safety mechanisms to improve trust in AI outputs

RivetAI - Culver City, CA

11/2022 – 01/2025

CEO & Head of AI/ML

Spearheaded the development of an AI-powered web platform that revolutionizes film and television pre-production workflows. Led end-to-end technical strategy and product development while building and managing cross-functional teams across engineering, product, and operations. Architected advanced AI solutions leveraging generative models, optimization algorithms, and natural language processing to automate critical pre-production processes. Drove technical innovation while simultaneously managing business growth and strategic partnerships.

- Led technical strategy and implementation of an ML platform serving multiple enterprise clients, building and managing distributed teams of 10+ ML engineers across engineering, infrastructure, and operations

- Architected end-to-end ML training and serving infrastructure, implementing advanced optimization techniques that reduced inference costs by 40% while maintaining 92% accuracy
- Developed sophisticated optimization algorithms for production scheduling and budgeting, integrating constraint programming and linear optimization techniques
- Developed REST APIs for LLM integration, enabling seamless communication between AI models and frontend applications while handling 1000+ concurrent requests
- Established strategic partnerships with 5 major studios producing films with budgets ranging from \$5M-\$100M+

Storyroom

07/2020 – 10/2022

Co-Founder & Chief Data Scientist

- Led development of consumer-facing AI platform, implementing NLU systems and conversational interfaces while driving technical strategy and product vision
- Built and managed a team of 8 data scientists and ML engineers, establishing scalable development practices including automated testing, CI/CD pipelines, and microservices architecture
- Architected advanced NLP systems for real-time market analysis and competitive intelligence
- Implemented automated sentiment analysis and trend detection systems
- Architected REST APIs for real-time AI features, enabling seamless integration of ML models with frontend applications

End Cue - Culver City, CA

04/2017 – 06/2020

Senior Data Scientist

- Architected and implemented advanced NLP engines for automated script analysis, story generation
- Created frameworks for predicting production success metrics using machine learning and predictive analytics
- Spearheaded research initiatives in generative AI for creative content creation, contributing to foundational technology later patented for narrative-based content discovery and automated script analysis

SpaceX - Hawthorne, CA

11/2015 – 07/2016

Data Scientist

- Developed ML models for anomaly detection and synthetic data generation, reducing engine testing time and improving pre-flight verification accuracy
- Created automated systems for EMI testing analysis of Dragon vehicle
- Developed and scaled ML infrastructure for real-time anomaly detection processing 1000+ simultaneous sensor streams
- Built automated reporting systems reducing analysis time from days to hours per test cycle
- Designed distributed training systems for synthetic data generation, improving model performance while reducing computational requirements

Flight Software Engineer, SpaceX, Hawthorne, CA

03/2014 – 11/2015

Software Developer, SMARTRAC N.V.

08/2016 – 03/2017

SKILLS

ML Infrastructure & Systems: Distributed ML Systems | ML Platform Design | Real-time Inference | Model Serving Infrastructure

Machine Learning: TensorFlow, PyTorch | Deep Learning | Recommendation Systems | Model Optimization

Technical Leadership: ML Strategy | Cross-functional Leadership | Technical Mentorship | 10+ years ML Experience

Programming & Tools: Python, Java, C++, Ruby, Ruby on Rails | Distributed Systems | Cloud Infrastructure (AWS, GCP) | MLOps/Model Monitoring