

# ARI KAMLANI

AI & ML STRATEGY, PRINCIPAL DATA SCIENTIST

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Manhattan, NY



## EXPERTISE

AI & Machine Learning

Ethical Fairness, Equality (EOP)

Recommender Systems

Natural Language (NLP)

Computer Vision (CV)

Reinforcement Learning (DRL)

Experimentation, A/B Testing

AI Infrastructure, MLOps

Strategic Storytelling

Design Thinking

Product Management

Agile/Scrum Methodology

Wireframes & Prototyping

## EDUCATION

BS Electrical Engineering

Lehigh University

Credits Forward, MS Data Science

Data ScienceTech Institute

Immersive, Data Science

Galvanize

Big Data Strategy

Design Thinking

Rutgers Innovation Center

Product Management

Product School

## SUMMARY

Accomplished AI & Machine Learning (ML) professional skilled in leading strategic early-stage personalized responsible machine intelligent solutions and enterprise program initiatives, aligning technology success with business objectives. A cross-functional leader driving effective decision making, delivering on high-impact value propositions and product strategy, while de-risking product roadmap initiatives.

## EXPERIENCE

**Beyond Limits** | Manhattan, NY 2021 – Present

*Senior Data Scientist / Senior AI Solutions Architect – Office of CTO, AI Solutions*

*Enable AI product innovation strategy, advance AI R&D business portfolio growth investments, instrument repeatable procedures, methodologies, and templates*

- Lead discovery sessions and strategic roadmapping, construct proposals and SOWs for AI initiatives across detection, forecasting, and KB reasoning scenarios
- Execute on AI pilots and experiments, assess architectural tradeoffs, constraints, and alternative solutions in industrial, energy sustainability, and healthcare sectors

**ThoughtWorks** | Manhattan, NY 2018 – 2020

*Principal Data Scientist – Professional Services (PS)*

*Shape machine intelligent impactful portfolio offerings, accelerate early-stage inbound pursuits, grow the AI capabilities, and co-lead numerous discovery client workshops*

- Led strategic multimodal IR (Retriever-Reader) search ranking initiatives, blending content governance, query disambiguation, entity linking KB, and semantic analysis
- Advanced model robustness across fairness and equal opportunity disparities, extended model attribution reasoning, behavioral testing, and judgement decisions
- Evolved supply chain lubricant inventory order fulfillment via safety stock demand forecasting, anomaly detection, and truck packing convex solver constraints

**Pathmind** (formerly Skymind) | San Francisco, CA 2017 – 2019

*Deep Learning Engineer Consultant – Solutions Architecture*

*Create and champion deep learning offerings (TensorFlow, PyTorch, DL4J), evolving research to production initiatives across structured, NLP, CV, and DRL modalities*

- Enabled business development in solutions architecture, partnership engagements, benchmarking optimizations, and delivering custom enterprise workshop sessions
- Facilitated the design of reinforcement learning (RLlib, Ray) decision agent SaaS for training and serving policies for simulation-based environments (AnyLogic)
- Led engagements in semantically matching query intents across conversational dialogue engines and cross-modal image captioning networks. Furthermore, detected industrial automotive CV poor welding joint fusion assembly behavior.

**JP Morgan Chase** | Manhattan, NY 2017 – 2018

*Data Scientist – Digital Intelligence, Consumer and Community Banking (CCB)*

*Strengthen consumer and small business personalization experiences, providing recommendations for Chase Products across the fully governed modeling lifecycle*

- Crafted *Ultimate Rewards* loyalty program scalable implicit ranking recommenders encompassing customer redemptions and spending propensity for branded offers
- Partnered with business units to deliver personalized insights, launching card acquisition FOMO message underwriting and targeted ad spending campaigns
- Led efforts in improving suggestive nudges for savings acquisition cash flows via custom neighborhood embedding proximity representation models

## TECHNOLOGY

**Agile PM:** Jira, Pivotal Tracker, Basecamp, Airtable, Aha, Miro, Bugzilla, Confluence, Notion, Trello, Doors

**UX Design:** InVision, Balsamiq

**Languages:** SQL, Python, R, Scala, Java, JS, HTML, CSS, C/C++

**Visual Analytics:** Tableau, Kibana, Grafana, Prometheus

**Public Cloud:** AWS, Azure, GCP

**ML:** PyTorch, TensorFlow, Keras, DL4J, Scikit-learn, RLib, Gym, Spark, FAISS, Prophet, OpenCV

**Fairness, XAI:** Lime, Anchor, SHAP, Alibi, IBM AIF360 / AIX360

**NLP:** Huggingface Transformers, spaCy, NLTK, Gensim, OpenNLP

**Distributed Compute:** Anyscale Ray, Apache Spark, Hive, Hadoop

**MLOps:** MLflow, DVC, Oozie, Airflow, Docker

**Storage:** Elasticsearch, Solr, MongoDB, Cassandra, Redis, PostgreSQL, MySQL, Neo4J

**Environments:** Jupyter, Colab, PyCharm, VSCode, RStudio, Zeppelin, IntelliJ, RStudio, Eclipse

**GitOps:** Git, Perforce, Clearcase, SVN, PVCS, Travis, Jenkins

**Compilers, Build Tools:** Maven, SBT, Make, GCC, Bazel

## PATENTS

Device Localization based on a Learning Model (2017)

Interference Control in Wireless Communications (2016)

## EXPERIENCE (CONTINUED)

**Techstars** | Manhattan, NY 2017 – 2017

*Technologist in Residence (TIR) – Venture Accelerator, IoT Division*

Advise, facilitate design, and scale several seed entrepreneurial startup ventures in acquiring their next round of funding and advancing product roadmap offerings

- Progressed product offerings, accelerating execution across multiple concurrent pilots (20x improvement), further overcoming B2B adoption and design hurdles
- Augmented existing architectures in IIoT Plug & Play NLP extraction data services, computer vision synthetic simulations, and scaling distributive computations

**Otto** (formerly Tyto Life) | San Mateo, CA 2017 – 2017

*Data Scientist Consultant – Products Division*

Head the design, data acquisition, measurement, and pedestrian pattern detection for keyless secure door access control in residential and corporate environments

- Reduced false positive tracking detections via denoising RF sensory inputs (BLE, Radar) with Non-Linear Kalman Filters with device ARM firmware deployment (C)
- Established a new statistical modeling pipeline to diagnose and improve upon the industrial factory unit yield production and factor assembly labor productivity rates

**Inria Research Institute** | Sophia Antipolis, France 2016 – 2016

*Research Assistant – STARS (Spatio-Temporal Activity Recognition Systems)*

Strengthen computer vision semantic scene healthcare interpretation for the elderly

- Generalized patient spatial semantic tracking zones via temporal link analysis and CNN spatial detections towards learned environments based on behavioral events
- Enhanced ontology scenario recognition patterns, optimizing prior contextual event behavioral states to reduce false positives in localized area tracking zones

**Nagra Kudelski Group** | San Francisco, CA 2012 – 2015

*Software Expert – Group Innovation and Incubation Research Team*

Advance technology innovation, pitch new research directives to the executive board, initiate formation of patent and IP proposals, and form strategic partner relationships

- Progressed early-stage technology innovations in digital media fandom entertainment for metadata content authoring and audience companion viewing
- Led technology innovations in low-cost RFID BAP long-range distance (300m+) localization detection tracking pilots in ski resorts, stadiums, and theme parks

## Prior Work Experiences

- Sportvision, Special Projects Consultant – Office of CTO 2011 – 2012
- Broadcom, Principal Engineer – Systems Engineering 2011 – 2011
- Qualcomm, Staff Engineer – Computing Enablement 2007 – 2010
- TapRoot Systems, Principal Engineer – Mobile Products 2003 – 2007
- Panasonic Mobile, Senior Engineer – Mobile Platforms 2000 – 2003
- Verizon Wireless, RF Engineer – RF Systems Performance 1999 – 2000

## Professional Affiliations

- IEEE SA, Committee Member - Ethics of A/IS 2020 – Present
- Manning Publications, Content Advisor and Reviewer 2020 – Present
- Institute of Ethical AI & ML, Contributing Member 2019 – Present
- Rutgers Innovation, Advisory Board - Big Data Strategy 2018 – 2020