

ARI KAMLANI

AI & ML STRATEGY, PRINCIPAL DATA SCIENTIST

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Manhattan, NY



EXPERTISE

AI & Machine Learning

Ethical Fairness, Equality (EOP)

Recommender Systems (RecSys)

Natural Language (NLP)

Computer Vision (CV)

Reinforcement Learning (DRL)

Experimentation, A/B Testing

AI Infrastructure, MLOps

Strategic Storytelling

Design Thinking

Product Management

Agile Methodology

R&D Prototypes, MVPs, Pilots

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) technology leader skilled in advancing 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 AI Solutions Architect / Senior Data Scientist – Office of CTO, AI Solutions

Advance AI R&D portfolio growth investments, collaborate with C-Suite leadership on new initiatives, scope and transform client opportunities into innovative experiences

- Lead discovery and planning sessions in structuring client value propositions and roadmaps, crafting pitches and SOW proposals, and assessing gaps in architecture
- Drive pilots across multiple verticals, incorporating data-centric quality control, symbolic knowledge reasoning, model constraint and deployment optimization

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) from research to production across text, vision, and reinforcement learning methodologies

- Enabled business development in solutions architecture, partnership engagements, benchmarking optimizations, and delivering custom enterprise workshop sessions
- Facilitated the design of reinforcement learning (RLlib, Ray) SaaS decision agents for training and serving policies for simulation industrial environments (AnyLogic)
- Led engagements across transforming encoded semantically matched query intents to distilled Transformer architectures, and improved the detection of poor welding joint robotic fusion behavior from video sequences in an automotive assembly line

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