ARI KAMLANI
A I & M L S T R A T E G Y , P R I N C I P A L D A T A S C I E N T I S T

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Manhattan, NY

E X P E R T I S E

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

E D U C A T I O N

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

S U M M A R Y

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.

E X P E R I E N C E

Beyond Limits | Manhattan, NY   2021 – Present
Senior Data Scientist / 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, RLlib, 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