

ARI KAMLANI

AI & ML STRATEGY, PRINCIPAL DATA SCIENTIST

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EXPERTISE

AI & Machine Learning
Ethical Fairness, Equality (EOP)
Recommender Systems
Natural Language (NLP)
Computer Vision (CV)
Reinforcement Learning (RL)
Experimentation, A/B Testing
AI Infrastructure, MLOps
Strategic Storytelling
Product Management
Agile/Scrum Methodology
Stakeholder Management
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 large-scale 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.

LEADERSHIP HIGHLIGHTS

IEEE | Globally Distributed 2020 – Present
Committee Member – IEEE Ethics of Autonomous and Intelligent Systems (A/IS)
Contributing member establishing a product strategy in forming the IEEE Experts two-sided marketplace network incorporating the Ethically Aligned Design initiative

- Assist strategy on vetting and approving applicants, constructing segmenting audiences, personas, and customer journeys, matching the demands of seekers

Rutgers Center of Innovation Education | NJ 2018 – 2020
Advisory Board Member – Big Data Strategy
Adjunct Lecturer and Advisor directing the content and curriculum for professionals to further their fluency, investment, and decision making within the Big Data Ecosystem

EXPERIENCE

ThoughtWorks | Manhattan, NY 2018 – 2020
Principal Data Scientist – Professional Services (PS)
Shape machine intelligent portfolio offerings, accelerate early-stage inbound pursuits, grow the AI organizational capabilities, and co-lead numerous discovery workshops

- Led strategic multimodal IR search ranking initiatives blending content governance, query disambiguation, entity linking, and semantic embedding vector analysis
- Calibrated model fairness, equal opportunity disparity, attribution reasoning (SHAP, Integrated Gradients) within mortgage claims, legal, and misconduct allegations
- Evolved supply chain lubricant inventory replenishment 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, champion, optimize benchmarks, and deliver custom enterprise workshops in deep learning algorithmic and infrastructure offerings within natural language (NLP), computer vision (CV), and reinforcement learning (RL) offerings (DL4J, Pathmind, SKIL)

- Boosted conversational dialogue high cardinality intent recognition, migrating the encoder from a BiLSTM to a knowledge distilled Transformer Encoder (BERT)
- Constructed robust image captioning TensorFlow networks semantically matching NLP query intents to descriptions, natively served by the SKIL JVM runtime
- Characterized industrial automotive poor robotic welding joint fusion assembly via development of a multimodal temporal spatial CNN welding detection networks

TECHNOLOGY

Agile PM: Jira, Pivotal Tracker, Basecamp, Airtable, Aha, Miro, Notion, Bugzilla, 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: TensorFlow, Keras, PyTorch, DL4J, Scikit-learn, RLib, Gym, Spark, FAISS, Prophet, OpenCV

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

NLP: 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)

AFFILIATIONS

IEEE A/IS

Institute of Ethical ML

Rutgers Center for Innovation

Manning Publications

EXPERIENCE (CONT'D)

JP Morgan Chase | Manhattan, NY 2017 – 2018

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

Strengthen consumer and small business personalization experience, 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 representation models at scale

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 proposals per creation of patents, IP, 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 1999 – 2012

Sportvision (Office of CTO), Broadcom (Systems Engineering), Qualcomm (Enablement), TapRoot Systems (Mobile Products), Panasonic (Mobile Platforms), Verizon (RF Planning)