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 (RL)

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

IEEE Standards Association (SA) | Global   2020 – Present
Committee Member – IEEE Ethics of Autonomous and Intelligent Systems (A/IS)
Facilitate establishing a product strategy in launching the IEEE AI Experts two-sided marketplace network, vetting applicants to the demands of seekers, further constructing requirements, segmented audiences, eligibility assessments, and customer journeys

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 (Retriever-Reader multioutput), blending content governance, query disambiguation, and entity linking KB
- Advanced model robustness outcomes across fairness and equal opportunity disparity, attribution reasoning, behavioral testing, and judgement decision codes
- 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 and champion offerings in deep learning (TensorFlow, PyTorch, DL4J), evolving from research to production across structured, NLP, CV, and RL simulation modalities
- Enabled business development in solutions architecture, partnership engagements, benchmarking optimizations, and delivering custom enterprise workshop sessions
- Boosted conversational dialogue high cardinality intent recognition, migrating the encoder from a BiLSTM to a knowledge distilled Transformer Encoder (BERT)
- Matured robust image captioning networks semantically matching NLP query intents to multimodal content, model served by the JVM product infrastructure
- Characterized industrial automotive poor robotic welding joint fusion assembly via development of a residual stochastic CNN (2D/3D) welding detection networks

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 proximity representation models

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, 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 Ethics of A/IS, Committee Member   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