**ARI KAMLANI**

**AI & ML STRATEGY, PRINCIPAL DATA SCIENTIST**



**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

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Manhattan, NY

**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

**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

**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*

**AFFILIATIONS**

IEEE A/IS

Institute of Ethical ML

Rutgers Center for Innovation

Manning Publications

**PATENTS**

Device Localization based on a

Learning Model (2017)

Interference Control in   
Wireless Communications (2016)

**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)*

**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:** 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