

LAKHAN TANAJI KADAM

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SUMMARY

Experienced Data Scientist with 5+ years in traditional ML and Generative AI. Currently leading the Data Science team at Quickplay, driving innovations in multimodal search, recommendation systems, multimodal understanding, and verticalization at scale. Skilled in designing end-to-end AI systems and delivering measurable business value.

EDUCATION

University of Waterloo

Sep 2022 – Dec 2023

Master of Engineering, Artificial Intelligence & Machine Learning

SKILLS

- **Languages:** Python, SQL, JAVA, C++
- **Databases:** PostgreSQL, AlloyDB, Firestore, BigQuery, Redis
- **Frameworks:** Tensorflow, PyTorch, Scikit-Learn, Agent Development Kit (ADK)
- **Cloud:** Google Cloud Platform (GCP), Amazon Web Services (AWS)
- **Tools:** Auto ML, Docker, Airflow, Cloud Run, Vertex AI, SageMaker
- **AI/ML Expertise:** Recommender Systems, Multimodal Search, LLMs, RAG, AI Agents
- **Soft Skills:** Leadership, Problem Solving, Mentorship, Ownership, Collaboration

EMPLOYMENT

Quickplay

Mar 2024 – Present

Senior Data Scientist

- Designed and deployed personalized recommender systems for 5+ enterprise clients, serving over 1M end users across different content platforms.
- Architected a fully automated short-video generation and enrichment pipeline using Gemini with multimodal inputs, reducing manual efforts by 90%.
- Developed and scaled automated video verticalization for different aspect ratios, reducing editing time by 95% and processing thousands of videos per day.
- Built and scaled a production-grade multimodal search system using multimodal embedding models, achieving <100ms latency for 10K+ daily queries.

Vector Institute

Jan 2024 – Feb 2024

Artificial Intelligence PM Intern

- Created an AI product roadmap emphasizing bias mitigation, fairness, and compliance in research tools.
- Collaborated cross-functionally to define project KPIs and drive prioritization strategies aligned with institutional goals.

Quickplay & Vector Institute

Dec 2022 – May 2023

Machine Learning Intern

- Built time-series forecasting models predicting Quality of Experience (QoE) across 20+ metrics with ~70% accuracy.
- Developed scalable anomaly detection models and streaming data pipelines on GCP for 1000+ GB datasets.
- Created an LLM-based GraphQL query generator, reducing manual query time by 90%.

Xperi Corporation

Nov 2019 – Aug 2022

Software Engineer, ML

- Developed NLP models for 10+ languages to identify the intent, action, domain and context of the search query.
- Built a confidence model for search and recommendation queries for 10+ languages improving response time by 15%.
- Automated architecture for batch data generation and merging, reducing completion time and cutting cloud costs by 50%.
- Developed tools to generate text training data and deploy microservices on docker to reduce cloud costs by 60%.

TiVo Corporation

Jul 2018 – Nov 2019

Associate Software Engineer, ML

- Designed ML system to identify and correct misspellings, reducing translation delivery and deployment by 50%.
- Developed a classification model to classify errors on priority levels reducing manual labeling time by 80%.
- Developed a recommendation system for VOD content based on user preferences and content metadata for 8+ customers.

PATENTS

- **Systems and methods for improving content recommendations using a trained model** [US12387099B2](#)
- **Systems and methods for converting an input content item based on contexts** [US11847416B2](#)
- **Systems and methods for improving comprehension in translation based on context-based references** [US20220100970A1](#)

AWARDS & ACHIEVEMENTS

- Earned multiple awards at Xperi & Quickplay for successful customer-facing AI/ML deployments.
- Won \$4,000 from TiVo Innovation Awards for patent contributions.