Ajinkya Khamkar

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Experience

Intermediate Data Scientist III   *May 2022 – Present*
Match Group, Vancouver BC

- Working on a unified neural candidate generation system across Match Group's Affinity brands using imitation learning (InfoNCE) and low-rank feature compression for attribute-level distribution matching, reducing retrieval from **all available candidates** to **500**.

- Implemented an Entire Space Multi-Objective (ESMM) two-tower model improving mutual match rate on BLK from **6%** to **14%**.

- Implemented a one-way "like" prediction model increasing women's like rate from **11%** to **19%** and topline likes from **28%** to **32%**.

- Founding member of **Lara**, Match Group's first LLM-driven matchmaking platform; built RAG-based conversational agents for onboarding, match presentation, and feedback.

- Led integration of professional matchmaker dialogues to improve conversation quality

- Designed "Connection Point" detection system improving recommendation quality; achieved **60%** weekly match rate and **18%** mutual like rate for women.

- Built a POC for The League's voice-based onboarding concierge agent enabling demographic and preference capture via a **5-minute phone conversation**.

- Developed Plenty of Fish two-tower retrieval and ranking system replacing heuristics, improving Recall@10 by **11%**, Recall@25 by **16%**, and NDCG@10 by **11%**; system serves 900K+ users.

Senior Machine Learning Engineer   *May 2021 – Apr 2022*
Criteo, Palo Alto

- Built ML models estimating brand presence and performance across e-commerce platforms.

- Scaled marketplace integration pipelines using Airflow and Kubernetes.

Data Scientist   *May 2018 – Apr 2021*
Shipt (Target Subsidiary), San Francisco

- Designed sequential prediction model boosting add-to-cart conversion by **8%** (browse) and **6%** (PDP).

- Built personalized recommender (Wide & Deep) increasing homepage conversion by **11%**.

- Developed anomaly and ETL-failure detection systems catching **30+** pricing issues in 8 months.

Education

Masters in Data Science   *Aug 2016 – Apr 2018*
Indiana University, Bloomington
GPA: **3.6**

Bachelors in Computer Science   *Aug 2011 – Apr 2015*
Mumbai University, Mumbai
GPA: **3.4**

Skills

Python, PyTorch, SQL (Postgres/BigQuery), GCP (Vertex AI, Feature Store), Airflow, Kubeflow, Tableau, Looker Studio, Grafana