

Narek Maloyan

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PROFESSIONAL EXPERIENCE

VIASAT

Machine Learning Engineer

Full-time
Sep 2021 - Present

- Engineered a cutting-edge highlights extraction algorithm using PyTorch, OpenCV, and ffmpeg; optimized video preview experience resulting in a 40% boost in click-through rates and a 20% increase in user retention
- Designed and constructed a movie recommendation system, which enhanced suggestions and boosted user engagement by 25%
- Improved a semantic search engine hit rate by 55% and increased RPS by 10 times by distilling and fine-tuning lightweight embedding model

NASLEDIE

Machine Learning Engineer

Contract
Jan 2023 - Jun 2023

- Launched an LLM-based storytelling microservice that improved content engagement by 20%
- Integrated a text-to-image generative model that generated more than 100k images
- Implemented image personalization for faces used by over 5k users, creating a new revenue stream and increasing MRR by 20%

ODS.AI

Python Developer

Contract
Jan 2020 - Jun 2022

- Introduced a data science competition pipeline for evaluating solutions in a Docker environment for over 20 machine learning competitions
- Coordinated machine learning competitions in different domains such as NLP, CV, and Recommender Systems, with over 1000 participants in total

NSI

Machine Learning Researcher

Research Grant
Dec 2020 - Feb 2022

- Authored a comprehensive MRI image analysis tool composed of deep learning models for explaining images and providing doctors with a second opinion
- Spearheaded the successful integration of a cutting-edge predictive analytics tool, leveraging patient data and clinical parameters to forecast stroke risk, leading to a 50% decrease in preventable secondary strokes

TRENDMD

Machine Learning Engineer

Full-time
Sep 2019 - Sep 2021

- Developed a recommendation system pipeline for suggesting medical articles that increased clicks by 30%
- Created a Speech-to-text model to aid doctors in taking notes during patient consultations, decreasing note-taking time by 40%
- Optimized marketing strategies using uplift modeling techniques, resulting in a 35% increase in user interaction
- Integrated multi-armed bandits algorithms for efficient exploration and exploitation of recommendation strategies, improving Recall@10 by 25%

EDUCATION

LOMONOSOV MOSCOW STATE UNIVERSITY

Master of Engineering with Honors; Major in Machine Learning

Moscow, Russia
Sep 2019 - Jun 2021

- Top 1% graduate, recipient of a gold medal, and awarded a scholarship
- Dissertation: Training a Neural Network Language Model for an Abstract Syntax Tree (AST)-Based JavaScript Engine Fuzzer

Bachelor of Engineering; Major in Computer Science

Sep 2015 - Jun 2019

- Thesis: Analysis of Tainted Data through Static Analyzer for C++ code

ADDITIONAL INFORMATION

- Technical Skills: Python, SQL, Pytorch, Transformers, ONNX, Pandas, FastAPI, CI/CD, Git, Docker, AirFlow, AWS
- Languages: Fluent in Russian (native), English; Conversational Proficiency in Armenian
- Achievements: Kaggle Expert, highest rank 107 of 200k