

# Narek Maloyan

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Github    Kaggle    Google Scholar

## EXPERIENCE

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- **Viasat** (Remote) Sep 2021 - Present  
Machine Learning Engineer (Full-time)
  - Developed a highlights extraction method for the video preview (Pytorch, OpenCV, ffmpeg)
  - Designed and built a movie recommendation system and short video recommendation system (GoLang, Python, PostgreSQL, Redis, XGBoost, Pytorch, AirFlow)
  - FaceSwap for changing actors in the movie (Python, Deepfake)
  - Personalized Avatar generation (Python, Segmentation tools, StableDiffusion)
  - Semantic search engine (Python, ElasticSearch, BERT)
- **ODS.AI** (Remote) Jun 2020 - Feb 2022  
Python Developer (Part-time)
  - Created a data science competition pipeline for evaluating solutions in a Docker environment (Python, Docker)
  - Coordinated machine learning competitions in different domains such as NLP, CV, and Recommender Systems (Kaggle, Codalab, ods.ai)
- **Burdenko Neurosurgery Institute** (Remote) Dec 2020 - Feb 2023  
Machine Learning Researcher (Contract)
  - Developed a comprehensive MRI image analysis tool composed of multiple models for explaining images and providing doctors with a second opinion (Python, BLIP, Segment Anything)
  - Developed a tool for predicting the risk of stroke in patients recovering from a stroke (Python, XGBoost)
- **TrendMD** (Remote) Sep 2019 - Sep 2022  
Machine Learning Engineer (Full-time)
  - Developed a recommendation system pipeline for suggesting medical articles (Python, Spark, Pytorch, BERT)
  - Speech-to-text model to aid doctors in taking notes during patient consultations (Python, Kaldi, DeepSpeech)
  - Utilized uplift modeling techniques to optimize marketing strategies and maximize user engagement (Python, Scikit-learn, XGBoost)
  - Implemented multi-armed bandits algorithms for efficient exploration and exploitation of recommendation strategies (Python, Thompson Sampling, UCB)

## EDUCATION

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- **Lomonosov Moscow State University**  
Computer Science, Sep 2015 - present
  - Bachelor of Science
  - Master of Science GPA 5.0/5
  - Ph.D. student (Multimodal Deep Learning)

## SKILLS SUMMARY

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- **Languages:** Python, SQL, C++, C, GoLang, JavaScript
- **Frameworks & Libraries:** Pytorch, TensorFlow, Pandas, Scikit-learn, XGBoost, W&B, TensorRT, ONNX
- **Web Development:** FastAPI, Flask, Django, Streamlit, Gradio
- **Version Control & CI/CD:** Git, GitHub, GitLab, Jenkins
- **Containerization & Orchestration:** Docker, Kubernetes
- **Data Engineering:** AirFlow, Apache Spark, Hadoop
- **Databases:** PostgreSQL, MySQL, SQLite, ClickHouse, Redis
- **Cloud Services:** AWS (EC2, S3, Lambda, etc.), Google Cloud Platform