Nodar Okroshiashvili

Email | LinkedIn | GitHub | Stack Overflow | Personal Website

EXPERIENCE

Data Scientist Jul 2021 – Present
Bestlist *Georgia, Tbilisi*
- Build end-to-end search engine to collect the best products for any query
- Scrapping and processing tens of thousands of data points in real time
- Build named entity recognition (NER) model to identify correct products
- Constantly monitoring code performance to improve it in any direction
- Extensively working with back-end and front-end engineers to improve the overall user experience

Associate Professor Sep 2019 – Present
Business and Technology University *Georgia, Tbilisi*
- Create two courses/syllabus from the ground up
- Teaching the following courses:
  * Data Analysis with Python
  * Introduction to programming with Python

Data Scientist Sep 2022 – Apr 2023
CyFox *Georgia, Tbilisi*
- Build AI system to identify abnormal behavior/possible hacker activity
- Researching different approaches to improve the system to identify suspicious behavior
- Extensively working with Cyber Security researchers to analyze new type of attacks, investigate every details of that attack and consider it into my AI system

Data Scientist Oct 2021 – Aug 2022
Intrro *Georgia, Tbilisi*
- Build matching system to match job to candidate and vice versa
- Build several data enrichment pipelines
- Optimizing and improving existing services
- Doing R&D of external software libraries/solutions

Data Scientist Jan 2021 – Sep 2021
Delivery Hero *Germany, Berlin*
- Build time series anomaly detection model to identify abnormal behavior during marketing campaign
- Build a similarity measure for time series to identify the most similar marketing campaigns
- Finding the best allocation of campaigns for A/B testing
- Estimating causal effect of different marketing campaigns

Senior Data Scientist - Team Lead Aug 2019 – Sep 2021
MaxinAI *Georgia, Tbilisi*
- Managing team of fellow data scientists and data engineers
- Classifying tasks by criticality level and redistribute them among team members
- Build Question-Answering system to automate document processing workflow
- Build CV-Job Description matching system
- Scraping and processing IRS "Form 990" to create talent pool

Data Scientist Aug 2018 – Jul 2019
Credo Bank *Georgia, Tbilisi*
- Build the Credit Scorecard model to automate loan approval process
- Conduct Market Basket Analysis to identify customer buying patterns
- Conduct clustering to revealed customers new segment
- Increased profitability of marketing campaigns by identifying target segment

Data Analyst Oct 2017 – Jul 2018
Liberty Bank *Georgia, Tbilisi*
- Managing program to predict daily cash demand for ATM's
- Using anomaly detection algorithms to detect and eliminate outliers
- Using clustering algorithms to group ATM's
- Build custom models, such as ARIMA(X), SARIMA(X), EWMA to predict cash demand

Education

Georgian Technical University Georgia, Tbilisi

PhD - Computational Linguistics Sep. 2019 –

International School of Economics at Tbilisi State University Georgia, Tbilisi

Master of Arts, Economics Aug. 2014 – Aug 2016

Side Projects

Contributor of the following open source projects:

- A collection of algorithms for measuring the distance between two strings
- Feature Engineering package with Sklearn like functionality
- Interactive deep learning book with code, math, and discussions
- Bi-Directional Transliterator for Python
- Prophet: Automatic Forecasting Procedure
- Python Holidays

DataFest2020 Online Workshop | *SkLearn, NumPy, Matplotlib, Tensorflow* May 2019

- Detect if a person wears the face mask or not
- Workshop recording

Technical Skills

Languages: Python (advance), Julia (lower intermediate), JavaScript (lower intermediate), Rust (beginner)
ML, DL, & NLP: Scikit-Learn, PyTorch, Keras, spaCy, Gensim, XGBoost, CatBoost, LightGBM
Data Analysis: Pandas, Dask, Polars, NumPy, Scipy, Statsmodels
Data Visualization: Matplotlib, Seaborn, Bokeh, Plotly/Dash
Data Scraping: Scrapy, Selenium, Beautiful Soup, LXML, Selectolax
Databases: PostgreSQL, MongoDB
Cloud Services: AWS, GCP
Other Tools: Bash, Git, Jira, Docker, FastAPI