Result oriented Data Scientist having strong mix of technical, soft skills,
and IT business understanding

RELEVANT TECHNICAL SKILLS AND COMPETENCIES

Programming:
- Python syntax, data structures, object orientation
  Relevant Python libraries: Pandas, Numpy, Scipy, Keras, Tensorflow, Pytorch, Matplotlib, Sklearn, etc
  Seaborn, Gdal, etc.
- Bash/Shell Scripting
- Linux, Tmux sessions manager, GPU computing with TF & CUDA
- SQL and Spark Queries
- Docker, Python virtual environment
- Architectures, Data interfaces
- MapReduce, HDFS, Spark
- MS Azure, AWS cloud architectures and services

Experience of ML algorithms, and methods of data analysis:
- Inferential Statistics, Sampling methods, hypothesis testing
- Data Augmentation, Synthetic Data generation
- OLS/GLS for regression and classification. Gauss-Markov theorem. Polynomial approximation
- Empirical Risk Estimation Models, Logit/Probit: Binary, Ordered, and Multinomial; Regularization
- Ensembles of Algorithms: Bagging & Boosting. Random Forest, Xgboost. Stacking
- Logit/Probit for binary classifications, Ordered Logit, Multinomial Logit, Regularization
- Cross Validation
- Dimension reduction, clustering, KNN, Parzen Window
- Stochastic Grid Search hyper-parameter optimization
- Statistical Modeling: Cross Sectional data modeling, time-series models and analysis
- Signal Processing
- Designed own state of art methods for class balancing, multicollinearity problem solution having advantages compering to PCA or regularization, and others. Publications under request

Neural Networks:
- Deep Neural Networks Hyperparameter tuning, Regularization, and Optimization: L1, L2, and Elastic Net weight penalties; Dropout; Early Train Stop; Data Normalization; Batch Normalization
- Fully connected NNs. MLP
- Convolutional Neural Networks. Architectures: Unet, ResNet, AlexNet, Inception, etc.
- Sequence Models, Recurrent Neural Networks: LSTM, GRU, Bidirectional RNNs
- Generative Neural Networks

Algorithms and Data Structures:
Math skills: Statistical inference, Discrete Math, Graphs, Linear Algebra,
Calculus, Empirical and Quantitative methods in CS, Methods of Function Optimization

PROFESSIONAL EXPERIENCE

2019-recent days	**Modus, DTEK** **Data Scientist / Tech Lead**

- Reached high ROI and other positive effects in 8 out of 9 projects
- Accomplishing managerial functions, code review
- Performing all cycle of products development
- Designing product features
- Developing comprehensive predictive analytics models based on classical Machine Learning, and Deep Learning
- Developing validation procedures, A/B testing
- Developing custom optimization algorithms
- Built successful team and process from scratch

2018 – 2019	**EOS Data Analytics** (office Kyiv) – *www.eos.com* **Senior Data Scientist / Team Leader / Remote Sensing**

- Lead a team of 7 Data Scientists and Data Engineers
- Setting tasks to the team, monitor the performance, code review
- Responsible for all stages of the process of building ML algorithms from the research stage till production
- Improving performance, and quality of AI algorithms based on Neural Networks (projects for agriculture)

2017 - 2018	**EOS Data Analytics** (office Kyiv) – *www.eos.com* **Data Scientist / Computer Vision Researcher / Remote Sensing**

- Built AI predictive models based on NNs for crop monitoring
- Solved geospatial interpolation problems
- Performed comparative analysis of algorithms, improved overall accuracy in product performance
- Researched the quantitative relations between weather factors and crop yield

2016 - 2017	**GFK Ukraine** – www.gfk.com **Senior Data Scientist / Team Leader of** Global Data Science Hub *Marketing & Data Science*

- Lead a team of 11 members
- Developed methodologies for complex types of analysis: Product Line Optimization, Price Optimization, New Product Launch
- Conduct Time Series forecasting with dynamic econometric models: ARMA/ARIMA, Partial Adjustment/Error Correction Multifactor Models
- Measure influence of marketing activities on key KPIs
- Optimized the cash flows between trade marketing and outdoor
- Built predictive models of Market Demand / Brand sales

| 2015 - 2016 | **GFK Ukraine** – www.gfk.com |
| | ***Senior Data Analyst /Consumer Electronics Sector Head,*** *Point of Sales Tracking department* |

- Responsible for sector performance, €400k annual sales
- Led a team of three
- Performed market analysis using statistical methods and econometric modeling
- Applied statistics and econometrics to forecast markets
- Delivered presentations on the results of market analysis
- Controlled the research methodology

| 2014 - 2015 | **GFK Ukraine** – www.gfk.com |
| | ***Data Analyst**, Retail Service Sector* |

- Performed market analysis using statistical and econometric modeling tools
- Provided clients with regular market reports
- Building Dashboards

EDUCATION

| 2017 | **Kyivstar Big Data School 2.0** |

Successfully graduated the program
Free short term program where 20/1714 candidates were
selected for the program based on the results of Overall Accuracy
Metrics of the developed algorithms solving specific business problem
• Learned ML algorithms, Hadoop, Spark

| 2016 - 2017 | **Kyiv School of Economics, University of Houston MA** |

Master in Applied Economics, Data Science Track

- Achieved high academic results
- TOP 15% High Quality Awards, *Changellenge Cup Russia – (case competition for students)*
  Relevant courses: Calculus, Statistics and Econometrics I-III, Game Theory, Big Data, Data Analytics and Visualization in R

| 2009 - 2013 | **Kyiv Polytechnic University** |

Bachelor in Programming Engineering
• The best thesis award (AI system for land cover classification)
• Achieved high academic results - average grade 91/100

CERTIFICATES, COURSES

Data Science Management – J. Hopkins University

Dec 2018: **Kaggle Silver Award** at Global AirBus Ship Detection Challenge

Yandex Machine Learning course

Neural Networks and DL – Andrew Ng

Improving Deep NN – Andrew Ng

Convolutional NNs – Andrew Ng

Math and Python for Data Analysis

Programming with Python

Python Data Structures

Python to Access Web Data

Programming with Java

Programming with C++

Database Management (SQL/MySQL)

Stanford CS 231n (CNNs) – self passed

In progress

(Kaggle competitions is the platform where machine learners compete for the best algorithm, owned by Google LLC.)