ILIA ZAITSEV

Machine Learning Engineer

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PROFESSIONAL PROFILE

Machine Learning Engineer and Data Scientist with strong academic background and six years of applied data science, machine learning, and software development experience. Advanced knowledge of SW design patterns, fluent in Python, learning Go, strong in object-oriented and functional programming paradigms and in technical writing. Currently working at Blue Yonder Inc. as a Sr Data Scientist. Excels at applying AI/ML theory to commercial development in high volume data processing, visualisation, and classification.

KEY SKILLS

Machine Learning: Scikit-Learn, TensorFlow, PyTorch, Deep Learning, Computer Vision, Boosted Trees, Statistical Analysis, Model Complexity & Tuning, Regression vs Classification Problems, Reinforcement Learning
Data Processing & Visualisation: numpy, pandas, PySpark, Jupyter, matplotlib, seaborn
Programming: Object-Oriented & Functional Programming, Python, Go
Cloud Services: AWS SageMaker, EMR, ECR, S3, Databricks
Databases, Backend & Environments: MySQL, PostgreSQL, MongoDB, SQLAlchemy, Flask, macOS, Linux
DevOps: Docker, Jenkins
SW Design & IDE Tools: PyCharm, Xcode, Sketch, pdb, vim
Test-driven development: xUnit, pytest

CAREER SUMMARY

Machine Learning Engineer, Smaato Inc., June 2019 – May 2020

- Worked on scalable Machine Learning pipeline capable to train Deep Learning models on huge data volumes to improve currently established algorithms with data-driven solutions
- Participated in building a Python package unifying data management and model training processes company-wide
- Worked on building CI/CD pipeline releasing machine learning package and data pipelines
- Analyzed ads providers bidding patterns and developed Machine Learning models to reduce the outbound traffic costs without revenue impact

Kaggle: Generative Dog Images (Competition), June 2019 – August 2019

- Participated in data competition implementing various Generative Adversarial Models architectures and losses in Keras and PyTorch
- Won a bronze medal (67th place of 927 teams)

Python Developer (Contractor), August 2014 – March 2019

- Worked with programmers, data scientists, technical teams and product owners on diverse projects, authored technical articles on machine learning algorithms
- In-commodities. Developing a set of trading tools for data scientists and commodities traders
- Windsor.ai. Improved codebase tests coverage and eliminated bugs for toolset that analyses customer journeys and enables multi-touch attribution modelling to optimise client marketing budgets
- Viziphi. Developed a visualization tool for financial data plotting, leveraged knowledge of seaborn/matplotlib Python libraries to generate 2D image plots with critical financial information (loss/return heatmaps, confusion matrixes, etc.)

- ZenVPN. Ported and improved OpenVPN-based Windows VPN client to macOS, made adjustments to account for differences between platforms
- Klue. Developed a set of scripts, backend endpoints and ORM models for predictive food consumption system
- Private Client/Entrepreneur. Implemented a decision-tree based classifier for a tabular dataset classification for Proof-of-Concept
- Whippletree Research. Analyzed medical treatment information dataset using various classification algorithms (Random Forests, SVM, Gradients Boosting)

Python Developer & Machine Learning Engineer (Contract), VectorScient, December 2015 - May 2018

- Developed a configurable machine learning pipeline with visualizing and reporting system to preprocess and classify database-stored e-commerce information for B2B e-commerce clients of Predictally, wrote package to predict future behavior from millions of transactions per client

Face Emotions Recognition System Engineer (Contract), December 2016 - March 2017

- Developed a model to classify human face emotions in Computer Vision during Udacity MOOC
- Authored a technical paper on software development and results verification

Python Developer, BASE Capital (Contract), May 2016 - March 2017

- Fixed scripts and increased speed of script execution by factor of 5, as verified by the product owner
- Improved and refactored legacy data processing codebase
- Developed a web UI to access CLI-based tools running loan volume prediction models.

EDUCATION & PROFESSIONAL DEVELOPMENT

- Software Engineering, 5-years undergraduate degree, Surgut State University, Russia, September 2009 - July 2014
- Artificial Intelligence Nanodegree, Udacity, September 2017 - December 2017
- Machine Learning Engineer Nanodegree, Udacity, September 2016 - April 2017
- CS188.1x Artificial Intelligence / edX, BerkeleyX, February 2015 - May 2016.