UPSTAFF

Vladyslav S.
Senior Senior Data Scientist

SUMMARY

- Senior Data Scientist with deep expertise in Machine Learning and Computer Vision - Proficient in Python, C++, and various data science libraries such as NumPy, Pandas, and scikit-learn. - Holds a Doctor of Philosophy degree in Computer Software Engineering from Kyiv Polytechnic University.

TECHNICAL SKILLS

Main Technical Skills	Python (7 yr.)
Programming Languages	C, JavaScript, Python (7 yr.), Rust
Python Libraries and Tools	aiohttp, Matplotlib, NumPy, Pandas, PyQt, Scikit-learn, SciPy, Seaborn, TensorFlow
Python Frameworks	Django, Flask
AI & Machine Learning	NumPy, OpenCV, Scikit-learn, TensorFlow
Data Analysis and Visualization Technologies	Jupyter Notebook, Pandas
Databases & Management Systems / ORM	PostgreSQL, SQLAlchemy, SQLite
UI Frameworks, Libraries, and Browsers	Dlib
Amazon Web Services	AWS Boto3, AWS S3, AWS SQS
Azure Cloud Services	AzureSQL
Scripting and Command Line Interfaces	Bash
Mail / Network Protocols / Data transfer	cURL
Virtualization, Containers and Orchestration	Docker
Codecs & Media Containers	Ffmpeg
Version Control	Git
Logging and Monitoring	Grafana

Third Party Tools / IDEs / SDK / Services	MatLab
QA, Test Automation, Security	Postman
Operating Systems	Unix, Windows
Other Technical Skills	CSS/HTML, Wolfram Mathematica

Senior Data Scientist
Duration: Sep 2022 - Present

Project: HVAC (Heating, Ventilation, and Air-Conditioning Systems), MPC (Model Predictive Control)

Responsibilities / Accomplishments:
● Prevent and fix incidents on production that are reported by the operations team
● Refactor and improve the current codebase
● Writing unit tests
● Improve CI/CD pipelines
● Doing energy disaggregation and R&D

Technologies:
● Languages: Python
● Libraries: SymPy, statsmodels, SciPy, Plotly
● Frameworks: PyTorch, streamlit
● OS: Linux
● Other: scikit-learn, ray, optuna

Lead Data Scientist
Duration: Jul 2022 - Present

Project: Medical project for classification and segmentation of the fundus images for diabetic retinopathy signs.

Responsibilities / Accomplishments:
● Implementation and training of various SOTA Neural Network architectures to solve different tasks in the Computer Vision domain.
● Work on the improvement and maintenance of the customer-specific annotation tool that allows us to manage the arrival of new data conveniently.
● Design and implementation of end-to-end MLOps pipelines that cover all stages of the model life-cycle from data preparation to automatic redeployment.
● Building efficient and scalable API's for trained Neural Networks.
● Performing analysis of different forms to satisfy customer requests: visualizations, reports, etc.

Technologies:
● Languages: Python
● Libraries: OpenCV, matplotlib, pandas, NumPy, Tensorflow/Keras
● Frameworks: PyTorch/PyTorch Lightning
● Databases: PostgreSQL, SQLite
● OS: Linux
● Other: Docker, AWS(sagemaker, S3), vision transformers, advanced training

Lead Data Scientist
Duration: Jul 2019 - Jun 2022

Responsibilities / Accomplishments:
● Development of high-load distributed user's involvedness measuring solutions by exploiting eye tracking, emotion, and attention measurement technologies.

Technologies:
● Languages: Python, Rust, WebAssembly
● Libraries: OpenCV, Tensorflow
● Frameworks: Django
● Databases: PostgreSQL
● OS: Linux
● Other: Amazon S3, SQS, EC2

Machine Learning Engineer
Duration: Feb 2018 - Jul2019

Responsibilities / Accomplishments:
● Research in the field of eye tracking/emotion measurement: data engineering, software development, machine/deep learning, model deployment.

Technologies:
● Languages: Python, C++
● Libraries: OpenCV, Tensorflow
● OS: Linux
● Other: Dlib

Computer Vision engineer
Duration: Jan 2017 - Feb 2018

Responsibilities / Accomplishments:
● Research in the field of automated gaze direction estimation.

Technologies:
● Languages: Python
● Libraries: OpenCV, Tensorflow

Research and Development Specialist at StartUp
Duration: Nov 2016 - Aug 2017

Responsibilities / Accomplishments:
● Software architecture;
● Research in the field of automated music transcription.

Technologies:
● Languages: Python
● Libraries: Tensorflow

Computer Vision Researcher
Duration: Jun 2016 - Aug 2016
Responsibilities / Accomplishments:
● Research in the field of medical diagnostics, based on analysis of microscopic images of dry residue of human saliva.

Technologies:
● Languages: C++
● Libraries: OpenCV

Certifications & Courses

- Structuring machine learning Projects - Coursera
- Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization - Coursera
- Neural Networks and Deep Learning - Coursera
- Machine Learning - Coursera