

Vladyslav S.

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.

SKILLS

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|---|---|
| Main Technical Skills | Python (7 yr.) |
| Programming Languages | C, JavaScript, Rust |
| AI & Machine Learning | NumPy, OpenCV, Scikit-learn, TensorFlow |
| Python Frameworks and Libraries | aiohttp, Django, Flask, Matplotlib, NumPy, Pandas, PyQt, Scikit-learn, SciPy, Seaborn, TensorFlow |
| UI Frameworks, Libraries, and Browsers | Dlib |
| Data Analysis and Visualization Technologies | Jupyter Notebook |
| Databases & Management Systems / ORM | PostgreSQL, SQLAlchemy, SQLite |
| 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 |

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| 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

