Vlad Shish

Junior Data Science & Machine Learning Engineer

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Summary

With over 3 years of experience in Information Technologies and more than 1 year in Data Science and Machine Learning, I possess a solid understanding of Machine Learning principles, including supervised and unsupervised learning, classification, regression, and clustering algorithms. I am familiar with Deep Learning architectures such as Convolutional Neural Networks (CNNs) and Recurrent Neural Networks (RNNs), and their applications in areas like computer vision and natural language processing. I have knowledge of data preprocessing techniques, feature engineering, model selection, and evaluation metrics.

My technical skill set includes proficiency in data analysis tools and libraries such as Python (NumPy, Pandas, Scikit-learn), and deep learning frameworks like TensorFlow and PyTorch. Additionally, I have participated in Kaggle competitions, applying my machine learning and data science skills to solve real-world problems and collaborating with a global community of data scientists.

Technical Skills

Python

Pandas

NumPy

Scikit-learn

TensorFlow

Matplotlib

Git

SQL

C/C++

Projects

- **Neural Network from scratch** - https://github.com/zarzd/Neural_Network
  Designed and implemented a neural network framework from scratch, including forward and backward propagation, various activation functions, and optimization algorithms, to enhance understanding of neural network mechanics and gain practical implementation experience.
  Tools: Python, NumPy, Matplotlib.
- **Face mood recognition** - https://github.com/zarzd/mood_recognition
  Developed a facial emotion recognition system using TensorFlow. Preprocessed a dataset of facial images with annotated emotions. Built and trained a convolutional neural network (CNN) to extract features and classify emotions, leveraging transfer learning and fine-tuning techniques for improved accuracy.
  Tools: Python, TensorFlow, Matplotlib, NumPy.
- **Flood Prediction Competition on Kaggle** - https://github.com/zarzd/ML_competitions/tree/main/Flood_pr
  I participated in the Flood Prediction Competition on Kaggle, applying machine learning techniques to predict the probability of flooding using historical weather data, terrain features, and other factors. I utilized data exploration, cleaning, and feature engineering to extract meaningful insights and enhance

model performance. This experience honed my skills in working with real-world data, applying advanced machine learning techniques, and contributing to a critical societal issue - flood prediction.
Tools: Python, Seaborn, Matplotlib, Scikit-learn, XGBoost .

- **Titanic Competition on Kaggle** - https://github.com/zarzd/ML_competitions/tree/main/titanic
  Participated in the Kaggle Titanic competition, applying machine learning techniques to predict passenger survival based on various features, enhancing skills in data analysis, feature engineering, model selection, and evaluation.
  Tools: Python, Matplotlib, Pandas, Seaborn, Scikit-learn.
- **Digit recognition** - https://github.com/zarzd/Recognize_digit
  Developed a digit recognition model using machine learning techniques to classify handwritten digits with high accuracy, demonstrating expertise in image processing, feature extraction, and classification algorithms.
  Tools: Python, Matplotlib, TensorFlow.
- **Steel Plate Defect Competition on Kaggle** - https://github.com/zarzd/ML_competitions/tree/main/Steel%2
  Developed a practical solution for steel plate defect detection as part of the Kaggle competition, building and optimizing models to accurately identify and classify defects.
  Tools: Python, Matplotlib, Pandas, Seaborn, Scikit-learn, XGBoost.

Education

Belarusian State University — Minsk
Bachelor of Computer Science — 2023 - 2027

Language Skills

Russian — Native
English — B1

Personal Strengths

- Responsible
- Reliable
- Result oriented
- Rapid learning
- Disciplined
- Stress-resistant