Vladyslav
Middle Data Science Engineer

SUMMARY

- Data Scientist with 4+ years of experience specializing in delivering insights and solutions using analytics, machine learning, and data science across diverse industries. - Profound technical expertise with Python, utilizing libraries such as pandas, numpy, TensorFlow, and Keras, and deploying solutions with tools like Docker and FastAPI. - Successfully led data science projects focusing on market analytics, computer vision, and content moderation, demonstrating a strong background in ETL pipelines, predictive modeling, and deploying RESTful services. - Holds a Master's in Computer Science, augmented with certifications from Google Cloud and DataCamp, and is proficient in implementing ML methodologies, including NLP, CV, and time series analysis. - Experienced in RDBMS such as MySQL and PostgreSQL, cloud platforms like AWS and GCP, and has practical knowledge of software development life cycles and agile methodologies. - Fluent in English and Ukrainian, embodying strong multidisciplinary team leadership, evident in the management of complex projects and innovative solution development.

TECHNICAL SKILLS

Main Technical Skills	Data Analysis (4 yr.), AWS ML (Amazon Machine learning services) (4 yr.), Neural Networks, Data Mining, Business Analysis
Programming Languages	Python
AI & Machine Learning	AI, AWS ML (Amazon Machine learning services) (4 yr.), Computer Vision, Hugging Face, Keras, Neural Networks, NLP, NumPy, OpenCV, PyTorch, Scikit-learn, TensorFlow, TensorFlow Serving, Xgboost, YOLO
Python Frameworks	FastAPI, Flask
Python Libraries and Tools	Keras, NLTK, NumPy, Pandas, Plotly, PyTorch, Scikit-learn, SciPy, TensorFlow
Data Analysis and Visualization Technologies	Business Analysis, Data Analysis (4 yr.), Data Mining, Data visualization, DVC, Pandas, Time Series
Amazon Web Services	AWS ML (Amazon Machine learning services) (4 yr.)
Virtualization, Containers and Orchestration	Docker
SDK / API and Integrations	FastAPI
Version Control	Git
UI/UX/Wireframing	Microsoft Visio

Message/Queue/Task Brokers	RabbitMQ
Other Technical Skills	Computer Vision (CV), Custom API, Deep Learning (DL)

WORK EXPERIENCE

Data Scientist, Market analytics

Duration: June 2019 - present
Summary:

- Researched and implemented log-normal regression for sales analysis
- Researched impact of users behaviour on the product sales using RandomForestRegressor and XGBoost Regressor

Responsibilities: Data analysis, model implementation and testing.
Technologies: Python, Pandas, sklearn, XGBoost, Plotly

Data Scientist, Jewelry classification project

Duration: June 2019 - present
Summary:

- Performed discovery phase and developed roadmap planning
- Led the AI team to build data preparation, classification model training and testing pipelines
- Experimented with several computer vision frameworks and architectures
- Deployed the solution consisted of several classifiers to a REST API web-server

Responsibilities: Team leadership, data pipeline construction, model training and deployment.
Technologies: Python, AWS, Ultralytics YOLO, PyTorch Vision, HuggingFace ViT, FastAPI, PostgreSQL, pandas, OpenCV

Data Scientist, Video Content Moderation system

Duration: June 2019 - present
Summary:

- Researched content moderation services and video classification models
- Deployed a solution that uses AWS Rekognition services with custom processing and job management as API

Responsibilities: Research and solution deployment.
Technologies: Python, AWS, Rekognition, FastAPI, Redis

Data Scientist, Object detection in sports games stream

Duration: June 2019 - present
Summary:

- Developed an object detection model of football elements
- Researched and implemented custom algorithms for object tracking in stream
- Developed a model training pipeline including data augmentation techniques
- Deployed solution to serving service using RESTful architecture

Responsibilities: Model development, algorithm implementation and solution deployment.
Technologies: Python, OpenCV, YOLO, FastAPI

Data Scientist, E-commerce Monitoring & Intelligence Platform

Duration: June 2019 - present
Summary:

- Collected data provided by customers
- Cleaned and prepared the data for further use
- Aggregated and estimated the sales data
- Developed the visualization on the basis of which the client received the data they needed

Responsibilities: Data collection, cleaning, aggregation and visualization.
Technologies: Python, Pandas, Plotly, Numpy, XGBoost, MySQL, ClickHouse

Data Scientist, Regulation-checking system in construction

Duration: June 2019 - present
Summary:

- Researched and implemented image processing pipeline using OpenCV (thresholding, histogram equalization, etc).
- Researched and implemented object detection of construction elements
- Researched semantic segmentation of construction environment
- Researched pose estimation of construction environment
- Deployed solution that detects noncompliance of partial OSHA regulation to web-server

Technologies: Python, OpenCV, YOLOv5, U-NET, FastAPI, MediaPipe

Data Scientist, Data analysis from VR sensors

Duration: June 2019 - present
Summary:

- Researched and implemented statistical analysis of sensor data
- Performed architecture migration from monolithic-data processing to chunk processing from queue

Responsibilities: Statistical analysis and architecture migration.
Technologies: Python, Numpy, Plotly, signal filtering and processing algorithms, RabbitMQ

Data Scientist, Geo Railroad Analytical System

Duration: June 2019 - present
Summary:

- Implemented railroad data analysis and an ETL pipeline for data transformation
- Developed a railroad network graph system for best track path detection and incomplete tracks recreation

Technologies: Python, Pandas, Numpy, networkx

Data Scientist, Dance club project

Duration: June 2019 - present
Summary:

- Developed web-server with admin panel
- Implemented analytical dashboards and report generation
- Developed mobile application for instructors use

Technologies: Python, Flask, Pandas, Plotly, Kotlin, OkHTTP, navigation architecture

Data Scientist, Users behaviour analysis

Duration: June 2019 - present
Summary:

- Developed and implemented users classification and prediction VIP system based on their behaviour using XGBoost Classifier
- Deployed solution as an API

Technologies: Python, XGBoost, Flask, PostgreSQL, alembic, Pandas

EDUCATION

- **Master of Computer Science**
  Ternopil State Ivan Puluj Technical University, Ternopil, Ukraine
  2021 - 2023
- **Exchange Student, Bachelor of Computer Science**
  Hochschule Schmalkalden, Schmalkalden, Thüringen, Germany
  2020 - 2021
- **Bachelor of Computer Science**
  Ternopil State Ivan Puluj Technical University, Ternopil, Ukraine
  2019 - 2021
- **Junior Specialist of Computer Engineering**
  Technical college of Ternopil State Ivan Puluj Technical University, Ternopil, Ukraine
  2015 - 2019

CERTIFICATION

- **Google Cloud Skill Boost**
  Google Credential URL
- **Data Science Camp Smart Insight**
  Amazinum Credential URL
- **Python Programmer Track**
  DataCamp Credential URL