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SKILLS

Programming & Data Science

- Python
- Pandas, NumPy, Matplotlib, Plotly, Seaborn, Dask, PySpark, Celery
- asyncio, asynchronous programming
- Flask, FastAPI
- Testing (unittests, hypothesis, pytests)

Anastasiya Byelyakova

WORK EXPERIENCE

Data Analyst (ML Focus)

Kyros AI

August 2021 - June 2025

Developed automated Python scripts for large-scale data processing workflows and model deployment, ensuring efficient and scalable solutions. Including using asynchronous mode for processes time optimisation.

Scraped websites to extract data using extensive NLP techniques with spaCy and transformers for text cleaning, NER, and summarization.

Integrated AI technologies (Gemini and ChatGPT with LangChain) including FAISS vector databases for enhanced data processing, information retrieval, and semantic search in large texts.

Created classification models for categorizing essay examples and developed predictive models for summer program selectivity using TensorFlow, scikit-learn, and XGBoost.

Created Airflow pipeline to monitor and control database data.

Built predictive models for university ROI and student acceptance probability using machine learning

Performed image processing for websites including detecting humans, background cleaning, cropping, scaling and resizing

Databases

- MySQL
- PostgreSQL
- MongoDB
- Redis
- ElasticSearch
- FAISS (vector database)

Webscraping

- Requests, BeautifulSoup, lxml
- Scrapy
- Selenium
- Playwright

Machine Learning & AI

- Scikit-learn, XGBoost
- TensorFlow, Keras, Neural Networks
- LLM training, tuning and monitoring.

Natural Language Processing

- spaCy, NLTK, Hugging Face Transformers
- Named Entity Recognition, Text Classification, Summarization, Text embedding, Semantic search

Data Analyst & ML Developer

DataObrii

May 2017 - August 2021

Built comprehensive web scraping solutions to extract job opening information from company platforms with automated data pipeline.

Created production-ready Flask APIs for MongoDB database access and user authorization systems with scalable architecture.

Developed LSTM neural networks for sales volume prediction based on historical data using Keras with time-series optimization.

Implemented CNN classifiers for image recognition using transfer learning on Inception v3 (TensorFlow) for various applications (e.g., COVID detection on lung X-rays, real-time car counting) with images preprocessing by OpenCV (object detection, labeling, resizing, turning to grayscale, etc)

Developed NLTK models for advanced text chunking and natural language processing with production deployment.

Built LSTM and Random Forest models for financial price direction prediction with feature optimization and performance monitoring.

EDUCATION

Master of Science (MSc) - Analytical Chemistry

Taras Shevchenko National University of Kyiv

2010-2012

- Thesis: "Determination of 1,4-Dioxane by headspace GC with preconcentration by SPE" [cite: 81]
- Coursework: Gas Chromatography, HPLC, Environmental Analytical Chemistry, Physical Methods of Analysis, Nanochemistry, Pharmaceutical

Computer Vision

- OpenCV, PIL, YOLO, Mediapipe
- Images classification, objects detection, background processing, cropping

AI Technologies

- Gemini, ChatGPT, LangChain
- Information retrieval and Text classifications with AI

Cloud & Production

- AWS (S3, Lambda, EC2, Container Registry)
- Docker
- Apache Airflow
- Git
- n8n

Chemistry, Instrumental Analysis, Bioanalytical Chemistry, NMR Spectroscopy

Bachelor of Science (BSc) - Chemistry

National University of Kiev-Mohyla Academy

2005-2009