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# Uladzislau S. ML Engineer

## SKILLS

<b>Main Technical Skills</b>	Python, ML, LLM
<b>AI &amp; Machine Learning</b>	AWS SageMaker (Amazon SageMaker), GPT, LangChain, OpenAI, OpenCV, PyTorch, RAG, Scikit-learn, TensorFlow, Vertex AI
<b>Programming Languages</b>	Java, Python
<b>Java Frameworks</b>	Apache Spark
<b>Scala Frameworks</b>	Apache Spark
<b>Python Libraries and Tools</b>	Matplotlib, NLTK, Plotly, PyTorch, Scikit-learn, Seaborn, TensorFlow
<b>Data Analysis and Visualization Technologies</b>	Apache Hive, Apache Spark, Microsoft Azure Synapse Analytics, ML, Power BI, Tableau
<b>Databases &amp; Management Systems / ORM</b>	Apache Hive, Apache Spark, AWS Redshift, Clickhouse, ELK stack (Elasticsearch, Logstash, Kibana), Google BigQuery, HDFS
<b>Cloud Platforms, Services &amp; Computing</b>	AWS, Azure, GCP
<b>Amazon Web Services</b>	AWS Lambda, AWS Redshift, AWS SageMaker (Amazon SageMaker)
<b>Azure Cloud Services</b>	Azure, Microsoft Azure Synapse Analytics
<b>Google Cloud Platform</b>	Dataproc, Google BigQuery
<b>Deployment, CI/CD &amp; Administration</b>	DevOps, Kubernetes
<b>Virtualization, Containers and Orchestration</b>	Docker Compose
<b>Version Control</b>	Github Actions
<b>Logging and Monitoring</b>	Grafana

<b>Other Technical Skills</b>	Air ow, AutoGPT, CycleGAN, DALL-E 2, Dash, DVC, f, Few-Shot learning, fl, Flink, Hugging Face Transformers, JAX, Kube ow, LLM Agents, Looker, ML ow, ML Studio, Prompt Tuning, Snow ake, Stable Di fusion, Summarization, T5, TFX, YOLO
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## EXPERIENCE

### Senior ML Engineer, CODEPOLE

January 2022 – October 2024

**AI-Powered Personalized Fitness Regimens:** Designed a recommendation system using NCF and DMF ensemble followed by BERT2Rec integrated with wearable data to deliver tailored workout routines and real-time adjustments, boosting gym member retention and engagement. Improved workout adherence by 35%, increased retention by 22%, and achieved 87% recommendation accuracy.

**Recruitment Assistant:** Implemented recruitment assistant using Sentence Transformers for CV analysis, GPT-4 API for screening and feedback, and a Pinecone for knowledge base RAG. Orchestrated workflows with LangChain and deployed on Azure Cloud, reducing hiring time by 20% and improving candidate-job match accuracy by 11%.

**Customer Purchase Pattern Prediction:** Developed a hybrid time-series clustering model (Prophet, LSTM, DBSCAN) on GCP to analyze purchase behavior and forecast demand, optimizing stock and sales for a retailer. Improved stock turnover by 20% and forecasting accuracy by 25%, with 85% demand prediction accuracy.

### Senior ML Engineer, NORD-SOFT SOLUTIONS

October 2020 – January 2022

**Voice-Activated Reservation System:** Implemented a voice recognition system using Google Dialogflow and Google Speech-to-Text, integrated with the restaurant's reservation calendar to streamline the booking process. Reduced manual reservation handling time by 74%, boosted the number of reservations by 33%, decreased call volume to the hotline by 18%.

**Automated Damage Assessment for Car Insurance Claims:** Developed a damage detection model by fine tuning YOLO on synthetic dataset on AWS SageMaker to identify and assess vehicle damage from uploaded images, accelerating insurance claims processing. Reduced claim processing time by 45%, improved damage assessment accuracy by 14%, and achieved .97 precision in damage classification, increased the number of claims processed per day by 28%.

### ML Engineer, IBA Group

April 2018 – October 2020



**License Plate Recognition for Residential Security Gates:** Developed a license plate recognition system using MobileNet followed by Tesseract OCR pipeline, integrated with gate control systems to enhance security and streamline vehicle entry in gated communities. Reduced entry time by over twice and achieved 97% average chars accuracy in license plate recognition.

**Real Estate Price Prediction for Property Valuation:** Built an XGBoost model, leveraging historical property data to predict property values based on location, square footage, and amenities. Increased price prediction MSLE by 28% and improved decision-making for buyers and agents. Used SHAP to understand the impact of different features on price predictions.

**Customer Segmentation for Behavioral Analysis in Retail:** Applied K-Means Clustering and DBSCAN on Scikit-Learn to segment customers using POS data on transaction history and product preferences. Enhanced targeted marketing efficiency by 20%, increased customer retention by 15%, and achieved 88% ROC AUC in segmentation, enabling targeted marketing efforts and loyalty programs.

## EDUCATION

### **BELARUSIAN STATE UNIVERSITY (BSU), Master's degree**

2020-2022

- Completed a thesis on “Self-Adaptive Algorithms for Real-Time Anomaly Detection in Dynamic Data Streams”
- Focused on advanced Natural Language Processing and Statistical Modeling techniques.
- Published a research paper on integrating Bayesian models with transformer architectures for domain-specific text generation.

### **BELARUSIAN STATE UNIVERSITY (BSU), Bachelor's Degree**

2016-2020

- Completed a thesis on "Probabilistic Topic Modeling with Variational Inference for Large-Scale Document Clustering."
- Achieved top performance in Computational Mathematics, specializing in numerical methods and linear optimization.
- Led a team to build a recommendation system, utilizing statistical and ML models, which earned recognition in a national competition.