Anastasiia Semina

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Data scientist with skills in machine learning, statistical analysis, and deep generative models. Experience in process automation, development of forecasting solutions and operational design of generative models such as Flux and Stable Diffusion.

EXPERIENCE

Mentored a course on image processing and generation | Mentor

Dec. 2024 - Jan. 2025

I help the lecturer with course materials and check students' homework.

X5 Tech | NLP Engineer

Oct. 2024 - Feb. 2025

• Diploma thesis Product attitude

I am developing a project for review classification and clustering to identify growth opportunities and improve retail store performance.

Gazprom Neft | Data Scientist, Engineer

Feb. 2024 - Present

Automatic scheduling

I engaged in a project focused on forecasting production volumes and identifying critical production plant metrics to optimize operational efficiency.

• Mentorship of 2 interns

Mentored two interns in conducting statistical analysis for three technical installations, leading to the proposal of several data-driven production forecasting methods. Guided them in Python and statistical modeling.

EveryPixel | Computer Vision and Prompt Engineer

Aug. 2024 - Sep. 2024

Neuroproduction project

Conducted comparative analysis of multiple models for generating realistic group images with interactions between people, using webui-forge, webuiapi. The following models were analyzed: SDXL Juggernaut, RealisticStockPhoto v2.0 (SDXL) and v3.0 (SD 1.5), SDXL RealvisXL 4, combinations of SDXL models with custom LoRA, MidJourney, BRIA.AI, DALLE-3, Adobe Firefly Image 3, and Flux. Identified issues such as hallucinations, facial distortions, unnatural proportions, hand inaccuracies, and token truncation.

Wonderslide | Prompt Engineer for Stable Diffusion

Feb. 2024 – Oct. 2024

Generated images for an automated presentation project, including realistic portraits, abstract figures, and various objects.

NymphLens telegram bot | Prompt Engineer for Stable Diffusion

Oct. 2023 – Jul. 2024

Prompt engineering and comparison of models for a project that helps individuals create social media photos by automatically generating images with their faces.

BIA Technologies | Machine Learning Engineer

Aug. 2022 - Aug. 2023

Automation of planning process

I automated task planning in Jira by gathering requirements, assessing tools and algorithms for optimal task allocation, coding the solution, and collaborating with a user interface designer. The planning process was comprehensive, it considered factors like deadlines, priorities, sequencing, people competencies, and capabilities, using technologies like OptaPlanner and DoCPLEX.

Layoff Prediction and Employee Attrition Analysis

I developed a predictive model to forecast layoffs and analyze employee attrition reasons, aiming to proactively address retention issues and reduce turnover.

SKILLS

Languages: Python, SQL, LATEX

Tools: Git/GitHub, Bash, PyCharm, VS Code, MS Office, Atlassian Jira, Atlassian Confluence, Docker Libraries: matplotlib, seaborn, sklearn, opency, pytorch, ultralytics, diffusers, nltk, gensim, spacy, cplex, pyomo

EDUCATION

EDUCATION	
Master's in Artificial Intelligence	Sep. 2023 – Aug. 2025
ITMO University	Current GPA: 5.0/5.0
Bachelor's in Informational Systems and Technologies	Sep. 2019 – Aug. 2023
ITMO University	GPA: 4.0/5.0
Project and Product Management	2022
$Tinkoff\ courses$	
Projects and courses	
${\bf Image\ manipulation\ detection}\ \ {\it Grad-CAM,\ ResNet50}$	2024
 Developed a ResNet50-based model to classify original and photoshoped images from Psimplemented Grad-CAM for interpretability. 	S-Battles dataset,
Deep generative models course diffusers, VAE, GAN	2024
• Developed Bayesian models and implemented autoencoders.	
• Implemented GAN and sampled images in the StyleGAN latent space.	
\bullet Trained Stable Diffusion v1.5 using Dreambooth method and fine-tuned LoRA models.	
Computer Vision course Multi-class classification, Anomaly detection, Self-supervised learning	2023
• ResNet realisation in pytorch.	
• Experiments with variational autoencoder.	
• Multi-class classification using a dataset with missing labels during training.	
Repository is temporarily private	
RoadSignsDetector YOLOv8, RTMDet	2023
Web application for real-time road signs detection.	
ACHIEVEMENTS	
MegaOlympiad ITMO	2023
• Artificial Intelligence - Top 5 out of 200+ participants.	