



Lishchuk Vitalii

[Zhytomyrska, Zviahel 11701, Ukraine | mildred54schroeder1sk@outlook.com
| (+380) 663695784 | <https://github.com/vitalii-97>]

OBJECTIVE

Just want good reputation on a journey to revolutionize the world with AI. Vitalii is passionate about AI & ML, Java and Python and has more than five years of experience in data science projects across numerous industries and applications. Currently focused on cutting-edge technologies such as TensorFlow, Keras, deep learning, and most of the Python data science stack. Solved many real business problems in NLP, image processing, Java programming and Web & mobile domains. strong analytical and collaborative skills.

EXPERIENCE

Lead Data Scientist

Applied Research Team – Mphasis

July 2023 – Present

Remote, Ukraine

- Currently leading the development of a Medical Image Segmentation Labeling pipeline that involves self-supervised pre-training of a modified Masked Autoencoder model with both patch-pixel losses. It also includes a lightweight decoder for supervised fine-tuning on downstream segmentation task.
- Contributed a modified Momentum Contrast (MoCo) model pre-training pipeline for learning latent medical domain information with a contrastive and K-Means loss. This model was fine-tuned as a classifier which facilitated guided fine-tuning of Diffusion model for medical image synthesis task.
- Explored an Active Learning based pipeline for iterative fine-tuning of LLMs (distillbert, GPT2) on multilabel text classification task. Mitigated catastrophic forgetting issues with LoRA (Low Rank Adaptations) for optimal model performance (F1-score) by fine-tuning fewer parameters.
- Developed a Synthetic Tabular Data Generator solution with a hybrid Autoencoder and GAN approach that can generate high quality privacy preserving synthetic datasets.
- Skills: PyTorch, TensorFlow, Docker, AWS, Deep Learning, NLP, CV, MLOps, Teamwork, Leadership

Image Recognition as a Service

Perceptyx Inc

April 2022 – June 2022

Remote, Ukraine

- Architected an elastic image recognition web service that can autoscale up to 20 EC2 instances; created custom AMIs to get image classification result; used SQS to handle request and response.
- Built a custom load balancer which improved the performance by 80% by using queuing mechanism.
- Tested the implementation of auto-scaling and load balancing by generating 1000 requests.
- Skills: Python, HuggingFace, Docker, Deep Learning, NLP, CV

Custom chatbot developer

OpenAI

January 2022 – February 2022

Remote, Ukraine

- Developed ChatGPT models for various purposes, contributing to customize and stream output.
- Contributed to designing scalable backend technologies, database data retrieval, and preprocessing mechanisms
- Skills: Python, Django, OpenAI.

Software Engineer

Meditab Software Pvt. Ltd.

September 2021 – October 2021

Remote, Ukraine

- Developed and managed the backend of an e-commerce platform using Flask, MongoDB, and AWS.
- Worked on three web applications targeting customers, selling vendors, and admin users; built 50+ RESTful APIs with functionalities such as login/sign up, view a product, add a product to cart, checkout the order, etc.
- Improved the response time by 20% by refactoring the codebase and changing database design and queries.
- Added a bulk upload feature which reduced the manual work of adding products into a database.
- Skills: Python, Django, React, Express, Node, JavaScript, MongoDB, Nginx.

EDUCATION

Zaporizhzhya National University

Bachelor of Computer Science (BCompSc), Technical writing

January 2019-January 2022

GPA : 4.0 /4.0

LANGUAGES

- English : Fluent
- Russian : Native or Bilingual

SKILLS

Languages: Python, Java, JavaScript, C, C++, HTML/CSS, Bash

Databases: MySQL, PostgreSQL, MongoDB, Firebase

Libraries: NumPy, Pandas, OpenCV, Selenium

Frameworks: Flask, Django, Streamlit, Node.js, Keras, TensorFlow, PyTorch, Bootstrap, MERN

Tools & Technologies: Git, Docker, AWS, GCP, Heroku, Zapier, GPT, Nginx

RELEVANT COURSES

- UC Berkeley (Online - Audit): Full Stack Deep Learning Bootcamp 2022
- ML Intensive Course: Data Mining and Knowledge Discovery, Applied Machine Learning, Advanced Statistical Modeling in Business Analytics

ACHIEVEMENTS

- Received Pinnacle Award (x2) for significant contributions to multiple solutions at Mphasis
- Stood in 87.96 percentile among 3200+ participants in Amazon ML Challenge, 2021