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**Lishchuk Vitalii**

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**OBJECTIVE**

As a software developer at Django Stars, I am passionate about developing cutting-edge AI and ML solutions to solve complex business problems. I have worked on diverse projects ranging from predictive modeling to natural language processing and have developed several chatbots using Firebase, TensorFlow, PyTorch, and Django & Flask, Streamlit.

I have a strong background in statistics, mathematics, and computer science, with a Bachelor of Computer Science degree from Zaporizhzhya National University. I also have skills in quantum computing, MERN stack, and large language models, such as OpenAI and Midjourney. I am a self-starter who thrives in fast-paced environments and always looking for new challenges to tackle. I am seeking an opportunity to work in a challenging position that combines my skills in software engineering and provides professional development, interesting experiences, and personal growth.

**EXPERIENCE**

**Lead Data Scientist** *July 2023 – Present**Applied Research Team – Mphasis 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, GPT4) 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** *April 2022 – June 2022**Perceptyx Inc Remote, Ukraine*

• Architected an elastic image recognition web service that can auPythontoscale 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** *January 2022 – February 2022**OpenAI 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** *September 2021 – October 2021*

*Meditab Software Pvt. Ltd. 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** *January**2019-January 2022**Bachelor of Computer Science (BCompSc), Technical writing 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 Leaning, 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