Alexander Anikeev

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SUMMARY

I'm a results-driven Machine Learning Engineer with over 2 years of experience in artificial intelligence. My skills span the entire development process, from inception to successful production deployment. I've pioneered unified models, optimized inference speed using quantization, and consolidated text processing solutions. Proficient in Speech Recognition, NLP, and cloud based infrastructure

EXPERIENCE

Machine Learning Engineer   Sep 2021 – Present
Tinkoff, Voicekit   *Moscow, Russia*

- Successfully developed **transformer-based model** that successfully achieved a remarkable **15%** reduction in Word Error Rate WER
- Pioneered the creation of a **unified model** for streaming and non-streaming formats, resulting in enhanced efficiency and resource utilization, and expediting model training by **1.5** times
- Implemented **post-training quantization** techniques to optimize model inference speed, leading to an impressive **5** times acceleration
- Spearheaded the adoption of **MLOps** by implementing **GitLab CI/CD** and **AWS** workflows, resulting in streamlined development, testing and deployment of ML solutions
- Created a **versatile punctuation and capitalization model** that consolidated language text processing into a single solution, resulting in a substantial **20%** improvement compared to previous models
- Extensive experience in working with **language models**
- Utilized **Named Entity Recognition** techniques to extract valuable information from unstructured text data, resulting in a significant increase in accuracy by **30%**
- Collaborated closely within cross-functional teams exceeding **20 members** fostering a collaborative environment and achieving project milestones

EDUCATION

NRU HSE, Faculty of Computer Science   Moscow, Russia
Bachelor of Computer Science, Software Engineer | C#, Java, SQL   *Aug 2019 – May 2023*

Yandex School of Data Analysis   Moscow, Russia
Machine learning | C++, ML, Algorithms and DS, Math for Data Science, NLP   *Aug 2022 – May 2024*

Tinkoff Generation   Moscow, Russia
Algorithms and ML | Algorithms, ML, DL   *Sep 2018 – May 2019*

PROJECTS

Abandoned Object Detection | *OpenCV, Computer vision,*   2020
Developed real-time object detection software program

Household speaker verification | *Python, PyTorch, Speech biometry*   2022
Researched adapting embeddings to speaker subsets for household recognition

CERTIFICATIONS

- **Deep Learning Specialization** | **DeepLearning.AI**

- **Exploratory Data Analysis for Machine Learning** | **IBM**

TECHNICAL SKILLS

Programming languages: Python, C++, SQL, Java, C#
Frameworks: Tensorflow, PyTorch, Tensorflow Serving, TensorRT, Triton Serving
Developer Technologies: Docker, Git, AWS, wandb, grafana, Gitlab CI/CD, Kubernetes