Aleksei Kopylov

email | **linkedin** | **github**

ABOUT ME

A creative **Machine Learning Engineer** with 2 years of commercial experience. Like to solve tough problems and create solutions that inspire and amaze other people. Building a Data Science fraternity at my Alma mater.

KEY SKILLS

- Develop **Machine Learning** solutions with **Python**.
- My main expertise is in **Computer Vision**. I have a solid knowledge of **OpenCV**.
- Train **Deep Learning** models using **TensorFlow**, **PyTorch** and their numerous high level APIs.
- Architect and build resource optimized Machine Learning Pipelines using **Pandas**, **NumPy**, **DVC**, **Dask** covered with data tests.
- Use **MLOps** practices to produce data versioning, experiment reproducibility and monitoring system.
- Building stable, and extendable software using **Docker** and **Kubernetes**.
- Use **FastAPI** for a rapid inference and early insights.
- Have a decent experience with **Linux**-based systems. Use it as a main desktop and work environment for years. FOSS enthusiast.
- Do initial research for ML\DS teams. Write documentation and provide plans how to bring a product from idea to deployment.
- Aesthetic is everything. Value nicely looking graphs and presentations that people asking to have a link on. Visualize and present data using **TensorBoard**, **Seaborn**, **Matplotlib**, etc…

CAREER HISTORY

06/2020 — present
ZeBrains
Machine Learning Engineer \ Researcher

- Developed real time Hand **Pose Estimation** app that uses **Augmented Reality** to fit on rings and bracelets with realistic position and rotation on a hand. I've presented it on several exhibitions in Moscow.
- Developed a service that extracting and processing information from a complex text on an images (**OCR** + **NER**).
- Created service for detecting and tracking cars with **License Plate Recognition** (**OCR**).
- Developed **Speech Recognition chatbot**. From collecting and processing data to training a neural network and integration model to a chatbot.
- Developed Synthetic Image Generator framework.
- Created and lectured ML course in a university. Led ML internships. Been invited as an expert and a jury of ML Hackathon.
- Done various researchers and reports with analysis of the current state of ML. Worked on ML knowledge base.