Danis Alukaev

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Deep Learning Engineer

Experienced R&D Engineer in Deep Learning with over two years of expertise in computer vision (CV) and natural language processing (NLP) formulating corporate brand through innovations. My development process is driven by deep understanding of Git, automatization through MLOps techniques, and unique hypotheses-driven workflow. Highly skilled in PyTorch / Hydra / ClearML and well-versed in statistical techniques.

Tech Skills

Languages	:	English (upper intermediate), Russian (native)
Programming	:	Python, C++, C, Java
Deep Learning	:	PyTorch, Tensorflow, Gradient Boosting, Hadoop, Spark
MLOps	:	ClearML, Weights & Biases, Hydra, Optuna
Quantum	:	qiskit, IBM Quantum
Databases	:	PostgreSQL, Oracle Database, SQLite, MongoDB, Neo4j
DevOps	:	AWS, Ansible, Docker, Terraform, K8s, GitHub Actions, Yandex Tank
Web	:	Django, Flask, aiohttp, aiogram, Celery, Gunicorn, nginx, RabbitMQ, Vue.js
Dev Tools	:	UNIX-like operating systems, Git

Soft Skills

Personal	:	Deep Focusing, Decisiveness
Working	:	Teamwork, Leadership, Branding/Visioning

Experience

Machine Learning Engineer — Aug 2021– Present
AI Lab of Innopolis University — *Innopolis, Russia*

- Leading research in Explainable AI (XAI) with Ivan Titov, top 10% highly-cited NLP scientist in the world.
- Published a research paper in European Spine Journal, #1 ranked scientific journal in clinical neurology (Q1 quartile).
- Designed novel hypotheses-driven workflow for research process adapted by 2 teams.
- Developed scalable deep learning framework *"spiner"* for spine MRI examination: exploring morphometry of vertebrae and intervertebral discs, measuring coronal and sagittal Cobb angles, classifying and segmenting osteoporosis on each vertebra.
- Developed deep learning package *"purelung"* for chest X-ray pre-processing in industrial data pipeline: suppressing bone shadows, context-aware image crop, anatomy segmentation, and auto-inverse operation.

Education

Innopolis University — 2019 – 2023
Computer Science, GPA: 4.91 — *Innopolis, Russia*

Projects (5+)

Linguask — *PyTorch, GitHub Actions* — Source Code

- Fine-tuned large textual models for assessing natural language text by analytical measures.
- Applied MLOps techniques to automate routine operations and restrict programmers from violating style rules and designing non-working code.

Doctorinna — *Django, PyTorch, PostgreSQL, Docker* — Source Code

- Developed and deployed scalable Django REST API determining the user's risk group for various diseases.
- Received recommendation from Yegor Bugayenko in his blog post.

Other projects could be provided on request