

GESER DUGAROV, Ph.D. | Software Engineer, ML Engineer

email: geserdugarov@gmail.com
languages: English (advanced), Russian (native)
profiles: [LinkedIn](#), [GitHub](#)

SUMMARY

Software Engineer on Data Science projects in a computer vision startup. The last year mainly focused on a project of trucks monitoring by number plate recognition. Made to production, which reduced trucks downtime by 12%, and currently working on decreasing missed recognitions from a stream of ~20k frames per day.

Wide experience in research and data analysis (13 yrs, PhD). Made a transition from fundamental research in Oil & Gas to research and development in IT due to my passion to create products that people use.

Passionate about Machine Learning and Big Data. Personal mission statement: "Living a balanced life. Helping professionals to work smarter, not harder by creating automatic systems for their routine."

TECHNICAL SKILLS

Python, C++, SQL, Docker, Apache Kafka, Linux

WORK EXPERIENCE

Feb 2022 - **Software Engineer**,
current (1+ yr) **Digital Research** (computer vision startup)

- Created an event-based architecture for a system of batch image processing (~20k images / day). Developed server-side image processing on *Apache Kafka*. The system reduced downtime of trucks by 12%.
- Created a customer-facing web UI with reports and data visualization on *PosgreSQL* and *Yandex DataLens*. Also created an internal web UI for image data analysis on *PosgreSQL*, *Yandex S3* and *Streamlit*.
- Acceleration program for a project of forest scanning by unmanned aerial vehicles: individual tree detection and species identification. Finished proof of concept on 40 km² and 600k trees. Market analysis, and project presentation to foundations and potential customers.

2009 – 2022 Research Assistant >> Research Associate >> **Senior Researcher** (since 2019),
(13 yrs) **Trofimuk Institute of Petroleum Geology and Geophysics**

- Transferred new technology of fracture parameters estimation from fundamental research to business (NIS-Naftagas, Serbia). Lead the project: requirements specification for tough combination of research part and software development dependent from research results, project status meetings (40 presentations), and project stages delivery (4 reports and project defenses).
- 5 years in a row of personal projects supported by main foundations (2017-2021), laboratory financial resources have been increased by 18% for these 5 years.
- 4 graduate students: 3 MSc (2022*2, 2020), 1 BSc (2020).
- "The best young researcher in Earth science organizations" award (2019).

EDUCATION

- 2013 **PhD, Geophysics,**
Trofimuk Institute of Petroleum Geology and Geophysics SB RAS
- 2009 **MSc, Computational and Applied Mathematics,**
Novosibirsk State University

CERTIFICATES

- Deep Learning Specialization, Coursera (2021).
- Machine Learning, Coursera (2021).

HOBBIES

- Going to the gym on a regular basis (since 2019).
- Reading developmental psychology and business management books.

[Recent version of CV](#)