| **GESER DUGAROV, Ph.D. | Software Engineer, ML Engineer** | |
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| email:  languages:  profiles: | [geserdugarov@gmail.com](mailto:geserdugarov@gmail.com)  English (advanced), Russian (native)  [LinkedIn](https://www.linkedin.com/in/geserdugarov/), [GitHub](https://github.com/geserdugarov) |

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 -  current (1+ yr) | **Software Engineer**,  **Digital Research** (computer vision startup) |
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• 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  (13 yrs) | Research Assistant >> Research Associate >> **Senior Researcher** (since 2019),  **Trofimuk Institute of Petroleum Geology and Geophysics** |
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• 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 |
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| 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](https://geserdugarov.github.io/file/CV_Geser_Dugarov.pdf)