



**Dmitry Zorikhin**

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A dynamic Lead Data Scientist with 11+ years of combined experience in Data Science, R&D and Engineering. Initiated and managed various data science and digital transformation products across Oil and Gas (US, Russia), Steel manufacturing (UAE, India, Russia) and Financial industries (US, Malta).

Portfolio: <https://dzorikhin.github.io/portfolio/>

## PROFESSIONAL WORK EXPERIENCE

### Lead Data Scientist

Jan 2022 – present

Emirates Steel Arkan, Digital Centre of Excellence – Metals & Mining, Abu Dhabi, UAE

- Leading the team of 5 Data Scientists
- Implemented Value-In-Use model (25 models + optimization) resulted in > **\$5m/yr/plant** savings
- Created portfolio with over 20 digital and data science products according with Company strategy goals
- Developed Data Product Delivery Framework
- Driving adoption of data and digital products through business translation
- Managing data products delivery through data science partners' network
- Created 2 Value Stream Maps for Direct Reduction Plant and Steel Making Plant

**Tech stack:** Python | Classical ML | Timeseries analysis | SQL | Git | SAS | Azure | Databricks | Docker

### Senior Associate Data Scientist

May 2021 – Dec 2021

PwC Malta, Digital Transformation – Financial Services, Malta

- Developed and automated financial statements data extraction tool, processed over 10,000 documents
- Initiated 3 data science projects within Assurance and Tax departments

**Tech stack:** Python | Classical ML | SQL | Power BI

### Senior Data Scientist

July 2020 – March 2021

NLMK Group, Digital Transformation – Metals & Mining, Yekaterinburg, Russia

- Managed 4 digital products at MVP/production stage with **\$400,000/year** overall economic benefit
- Created portfolio with 15 digital and data science products according with Company strategy goals
- Led the group of 6 Data Science contractor teams
- Initiated 2 innovative projects for production upgrade (laser cutting technology, hydrostatic pressure monitoring)

**Tech stack:** Python | Classical ML | Deep Learning | Timeseries analysis | SQL | GitLab | Hadoop | Spark | Docker

### Data Scientist (remote)

June 2019 – July 2020

Advisor Energy, Digital Transformation – Oil & Gas, Houston, USA / Yekaterinburg, Russia

- Developed data-driven forecasting model for shale oil & gas production with 95% accuracy
- Prepared 8 US oil & gas shale basin reports covering over 80 E&P assets using quarterly updated data
- Data-driven Net Asset Value models | Type/Decline curves analytics | Reserves | Completions

**Tech stack:** Python | JavaScript | Classical ML | RNN | Timeseries analysis | AWS | SQL | Power BI | Git | Docker

### Lead Data Analyst

March 2019 – June 2019

SKB Kontur, Business Analytics – Software Development, Yekaterinburg, Russia

- Saved **\$40,000/month** as the result of notification services analysis of lead company's product Kontur.Extern

**Tech stack:** SQL | GitLab | Python | Classical ML

### Completion and Well Intervention Engineer

Nov 2015 – March 2019

Sakhalin Energy Investment Company Ltd. (Shell and Gazprom JV) – Oil & Gas, Yuzhno-Sakhalinsk, Russia

- Saved **\$2m/well** by optimizing well completion timing execution using engineering data model database
- Initiated and got financial approval for joint cloud-based data project for Wells and Subsurface departments
- Reduced CAPEX worth **\$50,000/well** by optimizing completion string for workover projects

### Associate Scientist | Engineer

Nov 2009 – Aug 2014

Ural Federal University | Labfer Ltd. – Science (Physics), Yekaterinburg, Russia

- Won and led own grant for scientific research with total amount of funds over \$13,000
- Developed ferroelectric substrates bonding technology for engineering project execution worth \$260,000
- Patent owner "Hysteresis-free High-Temperature Precise Bimorph Actuators" as part of project team

## EDUCATION

### MSc Offshore Oil and Gas Engineering

2014 – 2015

Diploma with Distinction, Robert Gordon University, Aberdeen, UK

### Postgraduate studies in the Physics of Condensed Matter

2013 – 2014

Physics Department, Ural Federal University, Yekaterinburg, Russia

### MSc in Innovations

2011 – 2013

Diploma with Distinction, Physics Department, Ural Federal University, Yekaterinburg, Russia

### BSc of Engineering and Technology in Innovations

2007 – 2011

Physics Department, Ural Federal University, Yekaterinburg, Russia

## SKILLS, ADDITIONAL ACHIEVEMENTS AND RELEVANT CERTIFICATES

- Google Cloud Big Data and Machine Learning Fundamentals