IVAN KATORGIN
Field Development Expert | Domain Data Scientist (Oil & Gas)

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ABOUT ME

Field development expert with 20 years of experience in the oil & gas industry. I apply data-driven approaches to solve complex geology and development problems, combine deep industry expertise with modern data analysis and machine learning methods. Work effectively in multitasking, uncertain, and high-load environments. I am focused on achieving measurable results and implementing innovative solutions

LANGUAGES

Russian — native

English — upper intermediate

AMBITION

Position of a leading expert (Domain Data Scientist) in an oil and gas company, where I can apply a combination of deep industry expertise, modern data analysis methods and data science to optimize field development

PROFESSIONAL INTERESTS

- Field development management
- Digital twins of oil & gas fields
- Data Science (ML/DL/CV/NLP) in petroleum geology and field development
- Optimization of oil & gas production | Predictive analytics
- Design and preparation of project technological documentation
- Reserves estimation, SEC/PRMS-compliant reserves auditing

WORK EXPERIENCE

04.2018 – currently
Izhevsk Petroleum Research Center (Rosneft Oil Company)
Chief Specialist of Design Oil & Gas Fields Development Division
- Management and expertise of full-cycle field development projects for Rosneft Oil Company assets
- Quality control of work in petroleum geology and oil & gas fields development
- Ensuring compliance with the requirements of government agencies

Basic work results:
- Organized preparation of project technological documentation for fields development for RN-Yuganskneftegaz and RN-Purneftegaz
- Prepared and defended in State Authorities (Central Development Commission) 5+ project technological documentation for key fields of RN-Yuganskneftegaz
- Prepared 20+ project technological documentation for underground water fields development for Rosneft Oil Company
- Monitored compliance with license obligations for Bashneft

08.2016 – 12.2017
West Siberian Research Institute of Geology and Geophysics
Head of Complex Oil & Gas Fields Development Analysis Division
- Coordination of work on subsoil use monitoring and analysis of the current state of the resource base of fields in Western Siberia
- Ensuring timely execution work in petroleum geology and oil & gas fields development

Basic work results:
- Prepared 5+ project technological documentation for Independent Subsoil Users

02.2015-06.2016
Tyumen Petroleum Research Center (Rosneft Oil Company)
Manager of Variogannneftegaz Geology and Development Department
- Evaluation of the efficiency of new oil & gas assets
- Preparation of integrated development projects for supervised regions
- Formation of ranking and schedule for drilling new wells

Basic work results:
- Organized work with contractors to prepare the project technological documentation for the department
- Prepared an integrated development project for RN-Nyaganneftegaz

04.2007-02.2015
RN-SakhalinNIPImorneft (Rosneft Oil Company)
Chief Project Engineer of Geology and Development Department
- Planning, organization, leadership, preparation, and defense of reserves estimation reports and project technological documentation at Scientific and Technical Councils of Subsoil Users and State Authority (Central Development Commission, State Commission on Reserves)
- Interaction with State Authorities (Central Development Commission, State Commission on Reserves) and contractors on geology and development issues
- Project teams formation and resource allocation for projects

Basic work results:
- Prepared and defended in State Authorities (Central Development Commission) 10+ project technological documentation for key fields of RN-Sakhalinmorneftegaz

10.2005-04.2007
Service Nafta
Reservoir Engineer of Reserve Estimation Division
- Analysis of oil & gas fields development
- Geological modeling and reservoir simulation
- Writing sections of reserves estimation reports

KEY ACHIEVEMENTS

- Prepared and defended in State Authorities (Central Development Commission) 40+ project technological documentation throughout the career (portfolio: https://drive.google.com/file/d/1dBAjwQnYsRqQV0Wgv0raAVJ91xWrC2Hi/view?usp=sharing)
- Received honorary certificate from RN-SakhalinNIPImorneft
- Diploma "Young Specialist of the Year" of Rosneft Oil Company

KEY COMPETENCIES

Petroleum geology and oil & gas field development:
- Expertise in field development analysis and monitoring
- Expertise in forecast technological development indicators, economic efficiency and selection of optimal development strategy
- Expertise in design and preparation of project technological documentation
- Reserves estimation, SEC/PRMS-compliant reserves auditing

Management and leadership:
- Leadership of multidisciplinary project teams (up to 30+ people)
- Project management: planning, terms of reference and calendar plan preparation, control
- Interaction with Customers, contractors, and State Authorities
- Approval and defense of project technological documentation in State Authorities (Central Development Commission, State Commission on Reserves)

Software:
- Irap RMS, Petrel, tNavigator, Eclipse, Tempest, RexLab
- Field development analysis and monitoring: RN-KIN, Baspro

DATA SCIENCE COMPETENCIES

Technical stack:
- Data processing and analysis in Python: Pandas, NumPy, SciPy, Librosa
- ML/DL: PyTorch, TensorFlow, Keras, Scikit-learn, XGBoost, LightGBM, Statsmodels
- NLP: NLTK, SpaCy, Transformers, BERT, Word2Vec, Natasha, Gensim
- CV: OpenCV, PIL, YOLO
- Recommender systems: LightFM, Surprise
- Databases: SQL, MySQL, PostgreSQL, MongoDB
- Visualization: Matplotlib, Seaborn, Plotly
- BI tools: Tableau, Power BI, Yandex DataLens
- Development tools: Git, Docker, Airflow, Hadoop, PySpark, Google Colab
- MLOps: Model Deployment and Monitoring
- Generative AI: experience with GANs, generative models
- Product analytics: A/B tests, metrics

Practical application:
- Implemented 15+ end-to-end projects in ML, DL, NLP, CV domains
- Won 1st place at the Netology data analytics workshop
- Finalist at the "Emkaton of Moscow Economics" hackathon
- Participation in the Siam ML Hack hackathon on the application of ML methods in processing and interpreting well tests
- More about my DS projects:
  github.com/IvanKatorgin
  https://drive.google.com/file/d/1hXzgeacYzjR9r62yszqLjyuL5SCbtIJo/view?usp=sharing

EDUCATION

2025   **Netology**
Data Scientist: Advanced track

2013   **Gubkin Russian State University of Oil & Gas**
Economics and Management at Oil & Gas Enterprises

2006   **Gubkin Russian State University of Oil & Gas**
Petroleum Geology

Key courses:
- Presidential Program for Training Management Personnel for Organizations in the Russian National Economy
- International Kaizen internship in Tokyo, Japan
- Schlumberger Technology Seminars
- Modern mentoring tools in production
- Data Visualization: From Boring Charts to Interactive Dashboards
- Business presentations, public speaking