

TRONG NGHIA BUI

Engineer

@ nghiabt96@gmail.com

+84 38 84 04 960

Vungtau, Vietnam

in linkedin.com/in/trong-nghia

github.com/YanGBloG

EXPERIENCE

Machine Learning

JVPC (Reservoir Department)

Feb 2019 – April 2019

Vungtau, Vietnam

- Research and development new model to optimize well performance.
- Working with team on integration of real-time well prediction solution.
- Experience with performance analysis, optimizations and evaluations.
- Deploying machine learning solution with Python mini software.

Software Development

PetroVietnam University

Nov 2018 – Feb 2019

Baria, Vietnam

- Developed multiple skills in order to build Machine Learning softwares.
- Incorporated various Machine Learning features with Python algorithms, in order to optimize Petroleum PVT and Well-Logging calculation.

ACHIEVEMENTS

- Class.stanford.edu certification for Statistical Learning
- Soft Skills training certification from SPE section.

SKILLS

Python, Keras, LaTeX, PyQt

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Tensorflow, Matlab, NumPy

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Excel, Tableau, Plotly, Pandas

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English

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OTHERS

Teamwork, Problems solving

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Hard-working, Self-learning

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Window, Office

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EDUCATION / COURSES

Statistical Learning

Class.stanford.edu

Jun 2018 – July 2018

Data Analysis

Datacamp

Feb 2018 – Apr 2018

Machine Learning by Andrew Ng

Coursera

Sep 2017 – Dec 2017

Bachelor of Petroleum

PetroVietnam University

Sep 2014 – July 2019

PROJECTS

Well-log analysis (On-going)

- Analyze geology with well-logging to predict properties of rock (permeability, porosity).

Salt Identification

- Developed a geo-classifier to identify deposits of salt to potentially prevent dangerous situations for Petroleum company drillers.
- A lot of different images from seismic and 3D renderings were the major challenges. Improved the existing accuracy by pre-trained model.

Well Performance Optimization

- Developed, modified and implemented new model to forecast well production rate with Time Series.
- Achieved 98% accuracy with Multi-layer Perceptron network, 91% with Long-Short Term Memory network.

PVT prediction

- Building software to predict PVT properties of oil and gas based on Multi-layer Perceptron.
- Reducing dependence on Core Test with large database.