Gleb Deriabin

25 y.o., Russia
Sichuan University, Business School, Ph.D. Management Science and Engineering
Chengdu, P.R.C.
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ResearchGate
Github
132-5814-0165
Future research directions: Data Analytics and Business Intelligence, Operations Research and Decision Support Systems, Supply Chain Management, Information Systems Management

EDUCATION

Ural Federal University Yekaterinburg, Russia
M.S., Power engineering, GPA 5.0/5.0 September 2020 – July 2022
Theses: "Creation of a software package for assessing the available technical and economic parameters of the natural gas pumping machine under operating conditions".

- Scholarship of the Government of the Russian Federation in priority areas
- Scholarship of Vladimir Potanin Charitable Foundation
- Research grant by United Engine Corporation (Russia)
- Scholarship by Ural Federal University for scientific achievements
- One of 100 best graduates 2022 of Ural Federal University

Ural Federal University Yekaterinburg, Russia
B.A., Power engineering September 2016 – July 2020

- Scholarship for extracurricular activities, Ural Federal University
- Grand Prix Student of the Year 2017, Ural Federal University
- Short internship at Universiti Teknologi PETRONAS, Malaysia

ADDITIONAL EDUCATION

Yandex Practicum Yekaterinburg, Russia
Professional program in Data Analysis: Python, SQL, data preprocessing, exploratory and statistical data analysis, business analytics, decision making. September 2022 – May 2023
Study cases on Github

Lanit Yekaterinburg, Russia
Designing in the context of a product. Product life cycle. Principles and approaches to design. December 2022

Kaggle September 2021
Python, Intro to ML, Intro to SQL, Time Series

RESEARCH AND RELEVANT EXPERIENCE

Ural Federal University, Department "Turbines and engines" Yekaterinburg, Russia
1 cat. engineer October 2022 – August 2023

- Participate in the implementation of a grant from the Russian Science Foundation on the topic: "Development of a model for predicting the erosion of the blades of axial compressors during the operation of gas turbine based on the results of numerical studies". I explored machine learning models for the erosion detection problem. Achieved an accuracy of 0.88 for degree of erosion classification. Stack: Python, Scikit-learn, Pandas, Numpy, Matplotlib.

Ural Federal University, Department of "Turbines and engines" Yekaterinburg, Russia
MS student February 2021 – August 2022

- Reproduced and improved filtration algorithm for gas turbine measurements in Python 3 code.
- Implemented thermodynamic method for gas turbine power evaluation in Python 3 code.
- Designed and realized method of gas turbine technical condition evaluation.

- Predicted gas turbine power and technical condition with machine learning models to reduce calculation time and complexity.
- With a professor created a workbook on the use of machine learning methods in the processing of gas turbine operation data for B.A. students
- Presented work at local and international scientific meetings
- Mentored and trained B.A. student
- Participated in the organization of an exhibition of student projects for enterprises

Ural Factory of Civil Aviation, Chief processing department — Yekaterinburg, Russia
3 cat. process engineer — August 2020 – January 2021

- Technological support for the repair of aircraft engines
- Created and optimized technological processes for the repair of parts
- Prepared a digital twin of documents

SKILLS

Data Analysis: Beginner in Python (Pandas, Matplotlib, Scikit-learn), SQL, Tableau, A/B tests
CAD: Inventor, Creo Parametric, AutoCAD
CAE: Matlab, Ansys Fluent and Mechanic
Other: MS Visio, Photoshop, Illustrator

PUBLICATIONS AND PATENTS

1) Blinov, V.L., Deryabin, G.A. Analysis of the Condition of a Gas Turbine System. 1. Analysis of Measurement Data. *Russ. Engin. Res.* 43, 660–668 (2023).
2) Blinov, V., and G. A. Deryabin. Estimation of gas turbine technical condition using machine learning methods. IOP Conference Series: Earth and Environmental Science. Vol. 1045. No. 1. IOP Publishing, 2022.
3) Blinov, V., G. A. Deryabin. Using machine-learning methods in determination of the pipe line gas turbine plant effective power. Proceedings of Higher Educational Institutions Machine Building, February 2023
4) Certificate of state registration of the computer program No. 2021666150 Russian Federation. Program for determining and analyzing the technical condition of a gas turbine according to nominally measured parameters: No. 2021665214: Appl. 10/01/2021 : publ. 08.10.2021 / V. L. Blinov, G. A. Deryabin
5) Certificate of state registration of the computer program No. 2021666558 Russian Federation. Program for filtering transient modes of operation of a gas turbine: No. 2021665164: Appl. 10/01/2021 : publ. 10/15/2021 / V. L. Blinov, G. A. Deryabin
6) 9 publications in national collections

LEADERSHIP AND ADDITIONAL EXPERIENCE

Ural Federal University, Council of student media — Yekaterinburg, Russia
Leader, participant — October 2016 – May 2020

- Worked with team to unite people involved in SMM at the university
- Managed bimonthly meetings for the exchange of experience and the development of an information agenda (30 participants)
- Created and holded a media school for beginners and specialists with help in finding employment, conducting master classes (350+ applicants)
- Organized a student media competition (50 project applicants)

Ural Federal University, Media center — Yekaterinburg, Russia
Social media specialist, press officer — April 2017 – June 2020

- Team management
- Formated of strategy and content plan
- Writed articles and short texts
- Promoted special university projects: career events, student holidays and admission company (300-5000 participants)