Roman Shaibaneev

Quantitative and data analyst

Prague, Czech Republic

shaibroman@gmail.com

777 836 260 in shaibroman

Education

MA CERGE-EI, joint institution of Charles University and Czech Academy of Science, *Quantitative economics* 2023 to 2025

- (Czech) Average: 1.0/1.0
- <u>Thesis</u>: Multivariate analysis of transactional data. Supervisor: **Stanislav Anatolyev (NES/CERGE-EI)**
- Completed master's-level courses in Statistics and Stochastic Analysis from the Mathematical faculty of Charles university (MFF UK), constituting the equivalent of a minor in the field
- Member of an econometric research group at CERGE-EI
- **Coursework:** Micro/Macro theory, Econometrics/Time Series, Stochastic Analysis/Random Processes, Machine Learning (NPFL129)

Ing Stopped after 1 semester, Prague University of Economics and Business (VŠE), Econometrics and Operations Research

2023 to 2024

- Studied the program during the first semester at CERGE-EI. Left it because decided to rather concentrate on additional MFF UK subjects listed above
- Coursework: Risk Management, Discrete Optimization in Python
- **B.c. Prague University of Economics and Business (VŠE)**, *Econometrics and Operations Research*

2020 to 2023

- Graduated with honors, among the top three students
- <u>Thesis</u>: Econometric analysis of the relationship between vaccination against COVID-19 and its occurrence in the population. Supervisor: **Vladimír Holý** (**VŠE**)
- **Coursework:** Econometrics/Statistics, Optimization, Financial Math/Derivatives, Accounting/Law ...

Experience _

Skillspire, Machine learning and AI tutor

• I have been a teaching assistant for the course . I have devoted 18+ hours a week to teaching machine learning algorithms and continuously refining the curriculum

Česká spořitelna, Credit risk analyst

- · Validation and monitoring of bank models team
- I was primarily responsible for monitoring corporate credit risk models. I also conducted smaller validations of other models

Remote, Seattle, USA Apr 2025 to Aug 2025

Prague, Czech Republic Aug 2022 to Jan 2023

Tutor 2020 to 2024

• I worked as a tutor for high school and university (mostly VŠE) students. Main subjects: Math, Economics, and Statistics

Projects

Below are projects I undertook on my own, at work, and at universities. I have been busy and productive with my Master's studies and econometrics research since 2022.

Projection of personal budget

A simple code that projects my personal monthly budget with (predefined) dynamics of spendings, earnings and interest rates. Within 2025 I am planning to create a database of my spendings and to use it for better (not predefined) projection

Validation of a VaR simulation model

2022

I validated a simulation code of VaR written in SAS. I took the theoretical framework of the model and wrote an independent code in R which yielded similar results, and I located some errors in the original SAS code. With the help of a colleague, we were able to optimize my code

Monitoring of corporate models

2022

 Conducted a regular third quarter monitoring of mostly corporate scoring models in SAS

Validation of a real estate repricing model

2022

• Helped to prepare data for the validation of the model

Modeling of credit risk, EY

2022

• Joint course with EY finished with a team project. We applied logistic regression to binned variables to estimate PD (probability of default) and validated the model

Modeling of credit risk

Analysis of retail data

2022

• Created a model for the project to estimate PD (probability of default). Was more quantitative with different data and I applied additional techniques for modeling

2022

• Divided customers into various groups and understand their demand behavior. For the first part, I used multinomial logistic regression, and for the second, I used goal programming.

Forecasting of births

2023

 Applied the cohort-component method to project people during their reproductive age up to the next 5 years, combined with fertility rates forecast by Lasso regression to predict newborns

Bayesian analysis of real estate

2022

 Applied Bayesian regression with predefined priors on Kaggle real estate data from Taiwan and estimated it with the Gibbs sampler

Skills and Technologies

Programming: Python, R, MATLAB

Technologies: Excel, SQL, smaller technologies including eviews, lingo, mpl, git, azure and more

Languages: Russian, English, Czech (all C1+)