SAMUEL PUCEK

Simunkova 1608/19, Prague 8, Czech Republic +420 770 189 639 \diamond samuel.pucek@gmail.com \diamond GitHub: samuelpucek

CARRIER OBJECTIVE

I am a friendly guy with a passion for technology. I greatly welcome new challenges and opportunities to learn new things. In my tasks I am systematic and persistent.

WORK EXPERIENCE

Avast Software

Junior Data Scientist

Prague, Czech Republic Jan 2021 - Present

- · Experimentation Platform
- · Personalization
- · Data Quality

I focus exclusively on further development of Experimentation Platform, mainly on automatization of Data Quality Checks. Our next goal is to provide deep-dive analyses to answer questions related to personalization and further evangelization of experimentation mindset across the organization.

Avast Software

Junior Data Analyst

Prague, Czech Republic Sep 2019 - Dec 2020

- · A/B testing
- · Experimentation Platform
- · Ad-hoc analyses
- · Data Engineering

My responsibility was to maintain and update data pipelines, create dozens of ad-hoc analyses (Jupyter Notebooks) to answer business-related questions, and to co-work on development of Avast's Experimentation Platform - the cutting-edge tool for automatic evaluation of experiments (A/B tests).

My main contribution to Experimentation Platform was to design a statistical engine for evaluating experiments, which consists of sequential evaluation, multiple comparison problem, delta methods etc. The solution has been open-sourced in fall 2020 - feel free to check Avast GitHub repository ep-stats. From ep-stats we created an independent Python package which can be found in PyPi.

In ep-stats we mainly focused on computational complexity. Using numpy we vectorized many math operations. We back-upped all features using unit testing, including statistical features stated above.

O2 Czech Republic

Software tester (part-time)

Prague, Czech Republic Nov 2017 - Sep 2019

- \cdot Integration and regression testing of company global CRM system during its development
- · SQL, HP Quality Center, SAP, SoapUI, Confluence

O2 Czech Republic

Internship program (part-time)

· IT reporting in SAP Solution Manager

Prague, Czech Republic Nov 2017 - Sep 2019

TECHNICAL STRENGTHS

Statistics R. Python

Programming C#, Python (Object-oriented programming)

Software & Tools SQL, Git, LATEX Optimization GAMS, MATLAB

EDUCATION

Sep 2017 - Sep 2019 Charles University in Prague, Faculty of Mathematics and Physics

Master's degree in Probability, Mathematical Statistics and Econometrics

Sep 2014 - Sep 2017 Charles University in Prague, Faculty of Mathematics and Physics

Bachelor's degree in General Mathematics

THESES

Sep 2019 Master thesis: Risk aversion in portfolio efficiency Sep 2017

Bachelor thesis: Scheduling optimization problems in education

LANGUAGES

English fluent (spoken and written)

German basic (passive) Slovak mother tongue

PROJECTS

Discrete simulation of music festival

Feb 2019

The simulation was coded in C#, with focus on user-friendly interface.

User can choose number of visitors, service speed (e.g. beer, hot-dog, toilets), and couple of other parameters. Program itself randomly creates visitors with various preferences and their own music schedule. Then the simulation starts. Randomness is also included in decisions during the simulation. The output is the overall satisfaction of visitors and detailed history of all visitors.

Modeling mortgage rates

Oct 2018 - Jan 2019

This project aimed at developing a framework for predicting mortgage rates for the purpose of actuarial cash flow models implemented in insurance company. We suggested multiple approaches, i.e. vector autoregression, simple regression. Bootstrap algorithm was used for generating scenarios. In addition, we dealt with client specific data of the insurance company. We used R and EViews for regression. Bootstrap and simulations were made in MATLAB. Client specific data were analysed in R.

Primary school timetable

Aug~2018

I used the results obtained in my Bachelor thesis and implemented them in real-life problem. Using GAMS I solved large linear optimization problem, which covered all requirements and conditions. The output was optimal timetable for the upcoming academic year. R was used for dealing with data before, and after the optimization.

INDIVIDUAL INTERESTS

Running (marathon 3:15:41, half-marathon 1:28:20), hiking, cycling