

SAMUEL PUCEK

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EXPERIENCE

Gen (acquired Avast)

Principal Data Scientist

Feb 2023 - Present

Prague, Czech Republic

- Implemented A/B testing metrics tailored to the subscription business model
- Performed pre-experiment and post-experiment analyses to validate and interpret the results
- Implemented variance reduction methods (i.e. stratification and CUPED) to speed up the A/B tests

Avast

Data Scientist

Jan 2021 - Jan 2023

Prague, Czech Republic

- Designed and developed an end-to-end ML pipeline
- Set up XGBoost and Reinforcement Learning models to suggest an individual renewal discount daily
- Coordinated code delivery between four teams, both internal and external

Avast

Junior Data Scientist

Sep 2019 - Dec 2021

Prague, Czech Republic

- Designed a statistical engine for an internal A/B testing platform running 100+ experiments per month
 - Utilized sequential evaluation, multiple comparison correction, delta method
 - Implemented a set of standard business metrics (revenue, ad reach, etc.)
 - Used numpy to optimize the performance of vector operations
 - Publicly available on GitHub (ep-stats) and PyPi (ep-stats)
- Performed analyses in Jupyter Notebooks to provide insights for particular experiments
- To this day, the A/B testing platform is used to test virtually all marketing and sales ideas before being fully scaled

O2 Czech Republic

Internship and QA Tester (part-time)

Aug 2016 - Aug 2019

Prague, Czech Republic

- Performed integration and regression tests for a global CRM system (SQL, HP Quality Center, SAP)

TECHNICAL STRENGTHS

Programming

Python (including Object-oriented programming): Pandas, NumPy, Plotly, scikit-learn

Software & Tools

SQL, Airflow, Git

Data

GCP (cloud), Hadoop (on prem), Hive

EDUCATION

Master's degree in Probability, Mathematical Statistics and Econometrics

2013 - 2019

Master's Thesis: Risk aversion in portfolio efficiency (2019)

Charles University in Prague, Faculty of Mathematics and Physics

PROJECTS

Blackjack with RL agent

Programmed the standard Blackjack game in Python. Planning to add a Reinforcement Learning agent that plays the game optimally. Available at github.com/samuelpucek/blackjack

INDIVIDUAL INTERESTS

Running (marathon 3:00:03, half-marathon 1:23:51), hiking, cycling