

# SAMUEL PUCEK

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## EXPERIENCE

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### 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 2022 - 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

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### Programming

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

### Software & Tools

SQL, Airflow, Git

### Data

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

## EDUCATION

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### 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

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### 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](https://github.com/samuelpucek/blackjack)

## INDIVIDUAL INTERESTS

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