

Szymon Socha

<https://szymonsocha.github.io/>

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in szymon-socha | 🌐 szymonsocha

EDUCATION

University of Warsaw

Warsaw, PL

Master of Science in Data Science and Business Analytics

2021 – 2023

GPA: 5/5, **Awards:** Dean's List 2022 (Top 7%)

Thesis: *Should You Care about Tools in Fake News Detection? A Comparative Study of Cutting-Edge Embedding Methods and Classification Algorithms*

Courses: Machine Learning I, Machine Learning II, Unsupervised Learning, Advanced Econometrics, Applied Finance, Statistics, Python, Advanced Programming in R, Big Data Analytics, Algorithms for Data Science, Bayesian Time Series Forecasting

University of Warsaw

Warsaw, PL

Bachelor of Science in Computer Science and Econometrics

2018 – 2021

Thesis: Investigating the impact of the COVID-19 pandemic on music streaming consumption, utilizing Google Trends activity changes and Spotify statistics. An econometric model is constructed and evaluated using R and Python

Courses: Machine Learning, Econometrics, Linear Algebra, Statistics, Time Series, Probability Calculus, Finance, Python, R, SQL, C++

EXPERIENCE

Data Scientist | *Python, Machine Learning, NLP, Time Series Forecasting*

Apr 2023 – Present

WeSub

Warsaw (Remote), PL

- Conducting R&D to develop new models for product categorization and value prediction within a circular economy framework, using machine learning and artificial intelligence algorithms
- The National Centre for Research and Development (NCBR) project

Data Scientist (Junior) | *R, SQL, BigQuery, ETL*

Jan 2022 – Apr 2023

Flying Wild Hog

Warsaw (Remote), PL

- Analyzing video games telemetry data using **R** and **SQL**
- Developing dashboards and reports in **RMarkdown** and **Shiny**
- Developing **ETL** processes with **BigQuery** and **MongoDB**
- Collaborating with UX Research team members in combining quantitative and qualitative research findings
- Working closely with different game development teams and editorial teams around the world in order to understand their requirements and questions related to a project

Data Science Assistant | *Python, R, Econometric Modelling*

Sep 2021 – Nov 2021

Publicis Groupe

Warsaw, PL

- Developing tool for econometric modeling project
- Data cleaning and processing using **Python** and **R** and building custom R tools for econometric analysis

SELECTED PROJECTS

Neural Network Performance Comparison | *Python, Neural Network, LightGBM, XGBoost, Random Forest*

- Comparison of neural network performance with other ML algorithms for two different types of data (image classification and regression)

Traffic Prediction | *Python, sklearn, Random Forest, Linear Regression, KNN, SVM, Rmd*

- Traffic prediction using multiple ML algorithms. Data manipulation and feature engineering

Option pricing Rcpp package | *C++, R, Rcpp, Rmd*

- Path-dependent European style up-and-out call option pricing with Monte Carlo and Rcpp package

TECHNICAL SKILLS

Languages: Python, R, SQL (BigQuery, KQL)

Tools: Git (GitLab, Bitbucket), Google Cloud Platform, PyCharm, RStudio, Ubuntu

Libraries: PyTorch, HuggingFace, sklearn, pandas, NumPy, tidyverse, dplyr, ggplot2

Expertise: machine learning, natural language processing (NLP), time series forecasting, econometric data modelling, clusterization, dimension reduction, statistics, hypothesis testing

I agree to the processing of personal data provided in this document for realising the recruitment process pursuant to the Personal Data Protection Act of 10 May 2018 (Journal of Laws 2018, item 1000) and in agreement with Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016 on the protection of natural persons with regard to the processing of personal data and on the free movement of such data, and repealing Directive 95/46/EC (General Data Protection Regulation).