

SILVIO SOPIC

Data Scientist

DATA SCIENCE | DATA ENGINEERING | DATA VISUALIZATION | MARKETING

Passionate about data-driven decision-making, I hold an MBA and dual MSc degrees (Business Economics and Information Management) from KU Leuven. Recognized for enhancing mass house price prediction models in a competitive thesis competition, I am skilled in R, SAS, Python, Bash, SQL, and data science libraries, excelling in conveying complex insights effectively. During a dedicated 6-month sabbatical, I furthered my expertise and achieved prestigious certifications, including those from IBM, in Data Analysis, Data Warehousing, Data Science, Machine Learning, and People and Soft skills.

EXPERIENCE

08/2022 - 01/2023 Young Graduate Program | Functional Analyst

KBC %

- Completed first cycle of the straight through processing by implementing a python script to generate SQL queries to be used to scan for nulls in Teradata
- · Undertook tasks in many individual parts of the ETL process as a Functional Analyst.
- Coordinated effectively with the security department which ensured proper distribution of technical privileges in the fine grained access system
- · Updated internal codebooks using knowledge gained using SAP PowerDesigner and Teradata
- Attended the rituals of the scaled agile framework (SAFE)

Accenture %

- ETL output comparison between Snowflake and SAP HANA using Excel and conditional formatting
- Internal ART: Al for Financial services member
- Developing prediction models for financial services (e.g., stock exchange, risk)
 - Responsible for analysis in the field of Credit risk modeling
- · Business Analyst in PowerBI trainings (60h), Azure fundamentals, and Azure data fundamentals

EDUCATION

09/2018 - 09-2021 MsC Information Management | Msc Business Economics

KU Leuven (Times Higher Education Ranking: 42nd) %

- MSc in Information Management
 - Successfully completed courses related to Data Science, Data Engineering, Data Analysis, and Software Development.

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- Thesis: "The impact of POI data on price prediction models."
- Nominated for LIRIS thesis competition in the category of "POI in real estate price prediction"
- Feature engineering using distance calculation in Euclidean space.
- Developed dashboards in Tableau (3).
- Implemented prediction models using random forest regressor with k-fold optimization.
- · MSc in Business Economics
 - Completed an experiment replication with technical analysis using ANOVA.
 - Conducted mediation and moderation analysis.
 - Performed survey analysis.
 - Obtained Google Cloud certification during the program.

Zagreb School of Economics and Management (QS Global MBA Ranking: Top 200) %

- · · Equipped with a holistic business understanding and strategic thinking mindset.
 - ERASMUS student exchange at KU Leuven (2 semesters)

• • LANGUAGES ACCOMPLISHMENTS **Machine Learning** Croatian C2 Proficient User | Mother tongue First Runner Up LIRIS Best thesis of Information Management **Data Science English** C2 Proficient User **Data Visualization** 💙 A volunteer experience % **Data Engineering** International meeting center KU Leuven. German B1 Independent User



Programming languages ☑ ML/DL libraries Python 0000 Scikit learn 0000 SQL 00000 Tensorflow (Keras) Bash 00000 Pyspark SAS Openai Git XGBoost R 00000 Miscellaneous Libraries Dataviz libraries **Pandas** Seaborn Numpy Matplotlib Imblearn **Folium** Re 0000 Yellowbrick Lifetimes ggplot 00000 Softskills Dataviz software **Prompt engineering** Tableau 00000 Presenting **PowerBI** 00000 **Problem Solving** Cognos Collaboration Brainstorming Databases (libraries) **Pyspark** 00000 Design and Documentation IBM db2 0000 00000 MySQL UML 00000 **PostgreSQL** Latex •••• **Teradata** Snowflake 0000 CODE SAMPLE

The impact of POI data on price prediction models %

• Features the usage of distance matrices for feature engineering and cross-validation for hyperparameter tuning. Explores the usage of tree based models.

To Oversample or Undersample? %

· Showcases the imb-learn package to increase prediction quality when dealing with grossly imbalalnced data. ML aglorithm wise, focuses on comparion various predictors and their stacking options.

Unravelling the Essence of Effective Market Segmentation %

• Explores clustering through the initial steps of the marketing process. Aims to create a summary of the techniques and knowledge necessary to optimize customer intelligence.