

Maria SALOP

PROFILE

Third-year Applied Data Science & AI student with expertise in transforming complex data into actionable insights using Python, SQL, and Power BI. Proficient in developing natural language processing solutions, including Transformers and speech-to-text technologies. Demonstrated ability to leverage data analytics for informed decision-making and enhance operational efficiency.

SKILLS

- Python and SQL (pandas, NumPy, scikit-learn)
- Data visualization (Power BI, matplotlib, plotly)
- Statistical analysis (descriptive stats, correlations)
- Data workflows (cleaning, feature engineering, ETL)
- Machine learning (classification, model evaluation)
- Natural language processing (Transformers, text preprocessing)
- MLOps and demos (FastAPI, Docker, Streamlit)
- Collaboration tools (Git/GitHub, Jupyter)
- Web technologies (HTML)

CONTACT DETAILS

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PERSONAL INFORMATION

Citizenship: **Romania**

Languages: **English** (C1), **Romanian** (native)

EDUCATION

APPLIED DATA SCIENCE & ARTIFICIAL INTELLIGENCE: Academy of AGM. *Breda University of Applied Sciences.* **2023–present**

◊ Machine Learning, Deep Learning, Data Science, AI development

PROJECTS

AI & DATA SCIENCE PROJECT PORTFOLIO (*Academic*) **09.2023 – 06.2025**

◊ A curated portfolio of academic and applied projects completed as part of my university education in Data Science and AI.

[Link to the portfolio](#)

AIR POLLUTION MORTALITY *Dashboard*

◊ Designed an interactive Power BI dashboard on global deaths from air pollution; performed data cleaning, correlation analysis, and data storytelling to surface key insights.

[Link to the project](#)

PLAYER VALUATION MODEL *NAC Breda*

◊ Built a regression model to estimate football player's market value from performance features; delivered an APA-style ethics report and model evaluation.

[Link to the project](#)

WASTE CLASSIFICATION *CNN Project*

◊ Trained a CNN to classify recyclable waste; shipped a small demo app and ran user testing to validate usability and error cases.

[Link to the project](#)

TRANSPORT INCIDENT PREDICTION *ANWB*

◊ Predicted traffic incidents using weather-linked features; accessed/joined datasets with SQL, engineered features, and compared baseline models.

Deliverables not publicly available (NDA)

ROOT LENGTH PREDICTION *NPEC*

◊ Developed an image processing pipeline using OpenCV to measure root length from plant images. Included pre-processing, segmentation, and analysis.

[Link to the project](#)

EMOTION CLASSIFICATION *NLP Research Project*

◊ Collaborated on an NLP research project to classify emotions in YouTube dialogue. Focused on improving accuracy and F1-score through class balancing, custom annotation, and error analysis. Deployed and evaluated the final model on real-world test data.

[Link to the project](#)

CHATBOT EMPATHY STUDY *Digiwerkplaats*

◊ Co-authored a policy paper on chatbot empathy; wrote an individual research paper measuring effects on trust/comfort from a Qualtrics survey.

[Link to the project](#)

EMOTION CLASSIFICATION *Deployment Project*

◊ Built a production-ready NLP pipeline (STT → preprocessing → optional translation → RoBERTa classifier). Exposed via FastAPI, packaged with Docker, deployed on Azure ML, and demoed in Streamlit.

[Link to the project](#)