

Simona Dimitrova

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SUMMARY

I am a dedicated and hardworking student with a focus on data engineering, artificial intelligence, and software engineering. My experiences include working on real-life client projects, which have provided me with practical insights and skills in these areas. I am committed to continuous learning and growth, particularly in analytics, software engineering, and data engineering. I am eager to contribute and thrive in a dynamic environment, where I can collaborate with others and make meaningful contributions as part of a team.

CLIENT PROJECTS

NPEC

Developed a pipeline for predicting plant organs and detecting landmarks in petri dishes, used in a robotic simulation environment to enable precise targeting by a robotic arm for inoculation. Deployed the project on a cloud platform using CI/CD practices. Created a modular Python package with full documentation, along with an API and CLI for seamless application interaction.

May 2024
Breda, NL

Technical domains: Data Engineering, Deep Learning, Computer Vision, DevOps, Azure ML, Docker, Kubernetes, API

Banijay Benelux & 3Rivers

Developed an emotion detection pipeline for labeling segments of the Expedition Robinson (Survivor) series with expressed emotions for each episode fragment. This project involved using NLP preprocessing techniques and fine-tuning Transformer models such as BERT and RoBERTa to achieve emotion classification task.

Feb 2024
Breda, NL

Technical domains: Data Science, NLP, Generative AI, Machine Learning, Deep Learning

BUas research within Facility domain

Contributed to a project at Breda University of Applied Sciences as part of the Facility Management course, focusing on integrating AI into the curriculum. This involved conducting both quantitative and qualitative research to identify key areas for AI application. Delivered insights through a dashboard and proposed potential solutions to enhance the organization's use of AI in their educational programs.

Sep 2023
Breda, NL

Technical domains: Data Translation, Research Analysis, Hypothesis Testing, Descriptive and Inferential Statistics

Breda Gemeente

Contributed to building a data-driven tool that analyzed factors impacting the Green Index score to help Breda allocate resources efficiently. Utilized ETL to examine correlations between Quality of Life, Public Safety, Segregation, and Environmental Statistics with the Green Index, predicting neighborhood scores through regression analysis. Delivering insights via Streamlit dashboard to the Municipality of Breda.

May 2023
Breda, NL

Technical domains: Data Analysis, PostgreSQL, MLOps, Machine Learning, Agile Project Management

EDUCATION

Breda University of Applied Sciences

Bachelor of Science in Data Science and Artificial Intelligence

Sep 2022 - present
Breda, NL

Relevant courses:

Data Analysis, Business Intelligence, Machine Learning, Statistics,
Computer Vision, Natural Language Processing, Cloud Computing

National Gymnasium of Natural Sciences and Mathematics

Profile Mathematics, Informatics and Information Technology

Sep 2017 - May 2022
Sofia, BG

Relevant courses:

OOP, Data Structures and Algorithms, Web Design,
UI/UX Design, Relational Databases

ADDITIONAL INFORMATION

- **Technical Skills:** Project Management, Collaboration, Agile Methodologies, Problem-solving
- **Programming Languages:** Python, R, Java, C++, Kotlin, HTML/CSS
- **Data Analyst:** PowerBI, Access, Excel, Azure, Docker, Kubernetes
- **AI & Machine Learning:** Scikit-Learn, TensorFlow, Keras, PyTorch, OpenCV, Transformers