

# Kornelia Flizik

+48 607044935 • korneliaflizik@gmail.com • [LinkedIn](#) • [Portfolio](#)

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## PROFILE

I am a third-year Data Science & AI student with a strong foundation in machine learning and data analysis. Through collaborative projects with various companies and a part-time tech role, I have applied theoretical concepts to real-world challenges. I'm seeking a meaningful internship where I can contribute as a valued team member, working on impactful projects that allow me to grow my skills and expand my professional network.

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## PROFESSIONAL EXPERIENCE & CLIENT PROJECTS

### Application support • Charlie works

Aug 2023 - Present

- Manage and optimize company-specific applications, adding new features and improving software functionality to enhance business operations and user experience.
- Administer user rights and roles, troubleshoot issues, and implement adjustments to improve application performance.
- Design and create dashboards to support data-driven decision-making.
- Oversee and manage data sources and data warehouse systems to ensure efficient data integration, storage, and accessibility.
- Contributed to the development of a new recruitment process that improved the efficiency of the recruitment department, resulting in an 85% reduction in application response time.

### Using AI in Plant phenotyping • Netherlands Plant Eco-phenotyping Centre (NPEC)

8 weeks

- Developed AI models for segmenting plant roots from images using advanced machine learning techniques, eliminating the need for manual data labeling.
- Tested virtual environment for automating plant inoculation with a liquid handling robot, including the development of wrapper and controllers, laying the groundwork for full automation.
- Achieved an sMAPE score of 23% for a root detection model, significantly exceeding the client's requirement of a score below 50%.
- Delivered a comprehensive research paper to NPEC, detailing the integration of AI and robotics in plant phenotyping and its potential impact on future studies.

### Emotion Classification System • Banijay Benelux

16 weeks

- Developed a scalable NLP pipeline to transcribe TV episodes and classify emotions, enhancing content analysis for viewer engagement.
- Created an API for emotion prediction with confidence scores, supporting automatic model retraining and continuous accuracy monitoring.
- Succeeded to implement automated deployment processes, ensuring version control and minimizing manual intervention.
- Deployed a Streamlit app for the client, facilitating real-time emotion classification and enhancing user interaction with the system.

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## EDUCATION

### BSc in Data Science and Artificial Intelligence • Breda University of Applied Sciences

Sep 2022 - Present

- **Relevant Coursework:** Data Analytics, Business Intelligence, Machine Learning, MLOps, Reinforcement Learning, Deep Learning, Natural language Processing, Software Development, Statistics, Mathematics, Agile, Data & AI Ethics, Cloud Computing, and Explainable AI
- **Small-scale intensive education:** Lecturer/mentor to student ratio of 1:5
- **Cumulative GPA:** 8/10

### High School Diploma • I LO Starogard Gdański

Sep 2019 - Jun 2022

- **Specialization:** Mathematics, Information Technology, English
- **Significant achievement:** One of the top 27 graduates in Poland based on final exam scores (2022)

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## SKILLS & TECHNOLOGIES

- **Programming languages:** Python (preferred), R, C++, HTML, CSS, JavaScript
- **Data Analysis:** Power BI, Tableau, Exploratory Data Analysis, Matplotlib
- **AI & Data Science:** Pandas, Numpy, SQL, Excel, Scikit learn, TensorFlow, Pytorch, OpenCV, Keras, Pyspark, SpaCy, NLTK
- **Cloud:** Azure ML, Docker, MLFlow, Weight and Biases
- **Other Technologies:** Visual Studio Code Github, Anaconda, Azure DevOps, LaTeX, TimeXtender, Salesforce