

# Ferit Sulçe

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## PROFILE

Third-year Artificial Intelligence student with expertise in Machine Learning, Deep Learning, MLOps and Web3. Experienced in developing end-to-end AI projects, including data analysis, model development, deployment and workflow automation. Strong in Python, Java, JavaScript, Vue.js, cloud and blockchain technologies, and skilled in teamwork and communication. Practical experience gained through group projects and internships, with proven results such as high model accuracy and complete MLOps pipelines.

## EDUCATION

### Howest (Hogeschool West-Vlaanderen)

Graduation Year 2026

- Bachelor of Applied Science (BASc) in Artificial Intelligence*

## TECHNICAL SKILLS

- Programming Languages:* Python, Java, JavaScript, PHP, SQL, HTML, CSS...
- Tools:* Keras, TensorFlow, Git, Matplotlib, Azure, Pandas, NumPy, MongoDB, Neo4j, MySQL...
- Expertise:* Machine Learning, Artificial Intelligence, Natural Language Processing, Deep Learning, Reinforcement Learning, MLOps, Web3.

## SOFT SKILLS

- Communication*
- Teamwork*
- Problem solving*

## LANGUAGES

- Dutch – Native*
- Albanian – Native*
- English – Fluent and professional (C1)*

## WORK EXPERIENCE

### Employer: Exail Robotics Belgium, Oostende, België

October 2025 – January 2026

#### *Exail Outsourced Project (AI Project)*

- Built a preprocessing pipeline using the MatchAnything model for image coregistration.

### Employer: Exail Robotics Belgium, Oostende, België

February 2025 – June 2026

#### *Intern (Internship)*

- The internship focuses on the development of a deep learning pipeline for **Object Recognition** in sonar data.
- Research, designed and implemented a model architecture combining unsupervised feature learning, data fusion, and classification.
- Contributed to the evaluation and optimization of model performance in an industrial context.

## PROJECTS

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### **WanderWand, Group Project for Analysis & Development**

October 2024 – December 2024

- Developed a fully integrated system with a Java backend (REST API), MySQL database, and Vue.js frontend with user and admin panels.
- Conducted an extensive business analysis to support technical and commercial feasibility.
- The project supports the Wander rod, an innovative environmental sensing device that collects real-time environmental data via sustainable energy.
- **Technologies:** Java, NodeJS, MySQL, REST API, Vue.js, HTML, CSS, JavaScript.

### **Global Tech Job Analysis, Data Collection & Preprocessing**

February 2025

- Worldwide analysis of IT jobs using Python, Pandas, Matplotlib, and Streamlit.
- Focus on data cleaning, preprocessing, visualization, and interactive dashboards.
- **Technologies:** Python, Pandas, NumPy, Matplotlib, Streamlit

### **Drunk Smurfs, Machine Learning**

March 2025

- Predictive model to estimate whether customers would cause damage during their stay and how much that damage would be.
- Achieved high accuracy score on a challenging and imbalanced dataset.
- **Technologies:** Python, Scikit-learn, Pandas, NumPy, Matplotlib.

### **Music Genre Predictor, Deep Learning**

April 2025

- Text classification model that predicts the music genre based on song lyrics.
- Used tokenization, padded sequences, and an LSTM neural network with dense layers.
- **Technologies:** Python, TensorFlow, Keras, NumPy, Pandas.

### **Smurf Grid Game, Reinforcement Learning**

May 2025

- Developed and trained a Smurf agent on a 9x9 grid to find the optimal path.
- Focused on Q-learning and policy optimization.
- **Technologies:** Python, NumPy, Matplotlib, OpenAI Gym.

### **Music Genre Predictor, MLOps (Machine Learning Operations)**

June 2025

- Developed a full MLOps pipeline using the Music Genre Predictor model.
- Model trained on Azure, deployed via Kubernetes, and workflow automated with GitHub Actions.
- **Technologies:** Python, NumPy, Azure ML, Kubernetes, Docker, GitHub Actions, TensorFlow, FastAPI, NGINX.

### **Verifiable Credential Platform, Web3**

September 2025

- Platform where universities issue verifiable diplomas stored in graduates' wallets.
- Employers and institutions can verify credentials and issuers on-chain.
- System includes a Vue.js frontend, Java backend, and Solidity smart contracts deployed on Ethereum.
- **Technologies:** Vue.js, Java, Solidity, Ethereum, Web3.js, Smart Contracts.

### **Mech Dog, AI Robotics**

January 2026

- Robot dog acting as a personal butler, capable of understanding and responding to voice commands.
- System captures user speech, encodes it into text, and processes it through an AI model to generate intelligent responses.
- Responses are decoded back into speech and delivered through the robot for natural interaction.
- Architecture integrates LangChain for orchestration, Python backend logic, and Whisk for voice encoding/decoding.
- **Technologies:** Python, LangChain, Gemini, Voice Processing, Whisk, AI Integration