Jef Grupping

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Education

Karel de Grote University of Applied Science	**Antwerp**
Bachelor in Applied Computer Science, AI.	2024
Vrije Universiteit Brussel	**Brussels**
Master in Computer Science	Attending
Koninklijk Atheneum Berchem	**Antwerp**
Latin - Mathematics	2018

Experience

The Lab project for the VUB, KdG	Antwerp
Python Developer	2024

- Collaboration with 2 full-stack students commissioned by the VUB
- Project to let children interact with the urban heat island effect using LEGO. The application takes a picture of a LEGO city and returns a heat map with expected temperatures.
- Developing the data pipeline in Python.
- Training an AI model using weather data
- Integrating the AI model using convolution
- Design of interactive GUI using TTKBootstrap
- Developing an external server to store results
- Configuration and Deployment on a RaspberryPi

Internship at Unikoo, KdG	Antwerp
AI-Developer	2024

- Developed an AI-chatbot for use as an HR-assistant
- Project in collaboration with another AI student
- Project management with scrum and git
- Analysis and research for a AI-chat bot using Retrieval Augmented Generation (RAG)
- Development in Python
- Integrating LLMs, Databases and vectorstores using AWS
- Deployment of the front end using the Microsoft Teams Toolkit
- Deployment of the backend in AWS

Skills & Interests

Technical: Data Science in Python (NumPy, pandas, scikit-learn, openCV, keras, Spark), Programming (JAVA, dotNET, Scheme), DBMS (MySQL, Postgres, PL/SQL, NoSQL, Neo4j)
Soft: Project Management, Problem Solving, Creative & Story Telling, Stress-resistant
Language: English, Dutch, French
Interests: Underwater Hockey, Martial Arts, Dungeons & Dragons

Additional Experience

Integration Project 2, KdG   Antwerp
AI-Developer   2023

- Development for a Rummikub web application
- Project in collaboration with 4 full-stack students
- Project management with scrum and git
- Analysis and research for a Rummikub Web application
- Development of an AI model (Monte Carlo Tree Search)
- Integration of the AI model into the web application with the flaskAPI framework
- Collaboration with system and network administration students for deployment on google cloud (Docker, Kubernetes)

Hockey Club Olympia   Antwerp
Barpersonnel, Job Student   2019-2022
- Operating the canteen independently or as part of a team
- Training new job students
- Supervising volunteers

Antverpia VUB   Brussels
(Social) Media Manager   2019-2022

- Responsible for social media and the website
- Managing, training and supervising the rest of the media team.
- Develop and deploy renewed website with HTML, CSS and JavaScript