

Tanguy Hardion

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ACADEMICS

Université de Technologie de Compiègne

Specialization in Artificial Intelligence and Data Science

Compiègne, France

Sept. 2024 – Feb. 2025

Université de Technologie de Troyes

Engineer's degree in Computer Science and Information Systems, Data Science track

Troyes, France

Sept. 2022 – July 2025

Institut Universitaire de Technologie de Dijon

Associate degree in Computer Science

Dijon, France

Sept. 2020 – July 2022

EXPERIENCE

Junior Software Engineer

CPage (Software company)

July 2024 – Aug. 2024

Dijon, France

- Summer job
- Defined project requirements, established the development environment and created initial design specifications for a full-stack web application, outlining the system architecture and core functionalities
- Developed the web app using Angular, SpringBoot and PostgreSQL, featuring an interactive map that displays customer satisfaction data
- Integrated an NLP model from HuggingFace into the app using Flask for enhanced data analysis

Software Engineer Intern

CPage (Software company)

July. 2023 – Dec. 2023

Dijon, France

- Mid-engineering studies internship
- Created a full-stack web application using Angular, SpringBoot and Oracle, utilizing graph theory to map software solutions and their respective versions

Software Developer Intern

Autoroutes Paris-Rhin-Rhône (Highways company)

Apr. 2022 – June 2022

Saint-Apollinaire, France

- Associate degree internship
- Redesigned of the graphical interface of a WPF app, enhanced its features and restructured its database
- Developed an SQLite database encryption tool

PROJECTS

CNN on CIFAR-100 | TensorFlow, Keras, HuggingFace

May 2024

- Project part of a course on machine learning and deep learning
- Training of a convolutional neural network (CNN) from scratch to classify images of the CIFAR-100 dataset
- Preprocessed and engineered the dataset by normalizing the images and converting them to TensorFlow datasets
- Experimented with different architectures and hyperparameters to improve the model's accuracy
- Evaluated the model's performance using various metrics and visualizations

Llama 2 fine-tuning | PyTorch, HuggingFace, Meta AI

October 2023

- Project made for a proof of concept during my mid-engineering studies internship
- Fine-tuning of the 7B-parameter large language model (LLM) Llama 2
- Prepared a dataset to train the model on extracting specific text from PDF files
- Tuned the hyperparameters to make the model as accurate as possible
- Experimented with different architectures and hyperparameters to improve the model's accuracy
- Tested the model on various PDF files and evaluated its performance

TECHNICAL SKILLS

Languages: Python, R, JavaScript, Java, Go, C#, C, C++, SQL, HTML/CSS

Python Libraries: TensorFlow, Keras, PyTorch, scikit-learn, cvxpy, SciPy, NumPy, pandas, Matplotlib

Frameworks: Angular, React (Next), Vue (Nuxt), Spring, WPF, Swing, Qt

Developer Tools: Linux, Git, Maven, VS Code, Visual Studio, IntelliJ, Material Design