

EDUCATION

03/2019 - 07/2023	MEng Data Science Major , EPF - Ecole d'ingénieur·e·s Expected to graduate with First-Class Honours	Montpellier, France
09/2015 - 07/2018	French National Baccalauréat, Scientific Section , Lycée Privé Nevers High Honours (Mention Bien)	Montpellier, France

EMPLOYMENT

Academic Appointments

09/2023 - 01/2024	Part-time Professor , EPF - Ecole d'ingénieur·e·s	Montpellier, France
Course: Natural Language Processing		
Responsibilities: Overhaul the NLP curriculum, conduct lectures and labs, create and grade assignments for M2 students		
Curriculum (15h):		
<ul style="list-style-type: none">• Introduction to NLP and Preprocessing• Vectorization Methods and Text Classification• Named Entity Recognition and Part-of-Speech Tagging• Word Embeddings and Text Similarity• Sequence-to-Sequence Models and Sentiment Analysis		

Industry

02/2023 - 07/2023	Data Scientist (Master thesis), BMW Group	Munich, Germany
Master Thesis Title: <i>“Time Series Based Anomaly Detection For Fleet Connectivity”</i>		
Designed and implemented an Anomaly Detection algorithm based on time series derived features		
<ul style="list-style-type: none">• Reduced the anomaly detection window from days to minutes and channel dependency from two channels to one• Deployed a proof-of-concept using Amazon Web Services and PySpark• Enabled lost data quantification		
Implemented a Time Series forecasting model using Meta's NeuralProphet		
<ul style="list-style-type: none">• Allowed to predict the expected number of user connections for the following days with an average error of 1%		
06/2022 - 07/2022	Data Scientist (Remote Student Job), CEWE Stiftung & Co. KGaA	Fabrigues, France
Building an Aspect-Based Sentiment Analysis Pipeline		
<ul style="list-style-type: none">• Designed and assembled an aspect-based sentiment analysis pipeline• Applied the pipeline to analyze and gain insights from customer feedback in French and German.		
Time Series Forecasting with Meta's NeuralProphet		
<ul style="list-style-type: none">• Achieved a forecasting accuracy of 92% when predicting customer affluence on a 7-day horizon.• Enabled the HR department to optimize employee schedules based on accurate forecasts.		
07/2021 - 01/2022	Data Scientist (Bachelor thesis), CEWE Stiftung & Co. KGaA	Oldenburg, Germany
Bachelor Thesis Title: <i>“Multilingual Text Classification using Transformers”</i>		
BERT Model with Transfer Learning		
<ul style="list-style-type: none">• Fine-tuned a BERT model using Transfer Learning techniques.• Implemented temperature scaling to produce calibrated probability outputs, enhancing classification.• Achieved an F1-score of 93% across 14 classes in 3 different languages.• Deployed an active learning web application to facilitate efficient data labeling and model training.		