Kevin Feghoul

Machine Learning Scientist

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Education

University of Lille — Lille, France
Ph.D. in Machine Learning and Computer Vision — *Expected Dec 2024*
- Thesis : Machine Learning for behavior, stress and emotion analysis
- Department of Medicine and Computer Science

University of Clermont Auvergne — Clermont-Ferrand, France
Engineer's degree (Eq MS.c.) in Mathematical Engineering and Modelling — *July 2020*
- Areas : Advanced Statistics, Scientific Computing, Mathematical Modelling, Operations Research and Software Engineering

Experience

Machine Learning Scientist (Ph.D. Student) — Sept 2021 – Present
LilNCog Inserm lab — *Lille, France*
- Research on multimodal machine earning and human behavior understanding.

Data Scientist — Sept 2020 – April 2021
LIP6/Ikos — *Paris, France*
- Development of a pipeline for the detection of anomaly on the Regio 2N train doors.
- Worked in collaboration with the SNCF company.

Machine Learning Research Intern — Feb 2020 – July 2021
Dassault Systèmes — *Paris, France*
- Development of a pipeline to enable images shown to subjects to be reconstructed with the greatest possible fidelity from their brain activities using GANs.
- Development of Deep Learning models to learn to differentiate different categories of images shown to subjects based on their brain activities.
- Worked in collaboration with the Paris Brain institute.

Machine Learning Research Intern — May 2019 – Aug 2019
Keio University — *Tokyo, Japan*
- Multi-class sentiment analysis on tweets. Improvement by 12% of the accuracy by using Transfer Learning (ULMFit).
- Human activity recognition based on thermal images using the Efficientnet model with Transfer Learning. We achieve an accuracy of 95% on a set of 6 different actions.

Projects

Keyrus Data Science project — Sept 2019 - Jan 2020
- Training of Machine Learning models (XGboost/LSTM) for the prediction of electricity consumption.

Crédit Agricole Data Science project — Sept 2018 - April 2019
- Training of Machine Learning models (DNN) for life insurance prediction.

Kaggle - Aerial Cactus Identification competition — 2019
- Rank **84/1230**.

Kaggle - Don't Overfit II competition — 2019
- Rank **18/2330**.

Teaching

2020/2021
University Paris-Est Créteil
- Introduction to Machine Learning - Licence 3 (15h)
- Python Programming I and II - Licence 1 (60h)

Technical Skills

Programming Languages: Python, Matlab, C/C++, Fortran90, LaTeX
Frameworks: PyTorch, Tensorflow, Sklearn, Pandas and OpenCV