Valade Florian

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Education

Université Gustave Eiffel — Paris, France
PhD in efficiency of Deep Learning Algorithms — 2022–Present

ECE Paris — Paris, France
Master's Degree in Computer Science, Big Data and Machine Learning — 2021

Lycée L'Espérance — Paris, France
High School Diploma in Science — 2015

Publications

EERO: Early Exit with Reject Option for Efficient Classification with limited budget
2024 — *F. Valade, et al.*

- Research on statistical techniques for optimizing early exit mechanisms in classification tasks

Accelerating Large Language Model Inference with Self-Supervised Early Exits
2024 — *F. Valade, et al.*

- Extension of early exit techniques to Large Language Models for efficient inference optimization

Experience

Fujitsu - Université Gustave Eiffel — Paris, France
PhD Candidate, Research Engineer — 2022–Present

- Subject: Optimization of deep learning algorithms for recognition on embedded cameras. Using Statistical Techniques on Early Exit.

Fujitsu — Paris, France
Data Scientist — 2021–2022

- Development and management of projects in computer vision and deep learning.

Fujitsu - ECE Paris — Paris, France
Data Scientist Apprentice, specialized in Computer Vision — 2018–2021

- Training and application of computer vision and machine learning techniques.

Fujitsu — Paris, France
Data Scientist Intern — April 2018–Sept. 2018

- Development of demonstrations in deep learning.

Skills

- **Programming Languages:** Python, Java, C#, C, SQL
- **Frameworks and Tools:** Pytorch, Tensorflow, Docker, Git
- **Development and Systems:** Front End with React, DevOps, Network, Distributed Computing, Cyber Security, System Administration

Languages

- **English:** Fluent
- **French:** Native
- **Spanish:** Intermediate

Projects

- FreshDetect (PyTorch and Docker, 2022)
  Data scientist
  Development of an end-to-end solution for real-time classification of fruits and vegetables in supermarkets using deep learning. Full integration with store systems through containerized microservices.
- Handterpret (Tensorflow and electronics, 2020)
  Project Manager for end-of-study project
  Detection of hand position using infrared sensors on the wrist
- AutoCradle (Tensorflow and electronics, 2017)
  Team project
  Automatic detection of baby cries to activate the rocking of the cradle