

PERSONAL DETAILS

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LANGUAGES

English  
French  
Spanish

SKILLS

- Programming :
- Python, C, C++, Arduino
  - Pandas, NumPy / Matplotlib
  - PyTorch, scikit-learn, TensorFlow / Keras
- Machine Learning :
- Classification & regression
  - Transfer learning
- Computer Vision:
- preprocessing & augmentation (OpenCV)
  - normalization
- Applied Math :
- Linear algebra
  - Filtering (Kalman)
  - Calculus: gradients, Jacobians
- Evaluation & Experimentation
- Collaboration :
- Teamwork

INTERESTS

Sports  
Music  
Travel & Exploration

GUILHEM CARMOUZE

AI/ML ENGINEERING STUDENT (UPSSITECH)

PROFILE

Applied ML student (UPSSITECH) building clean, reproducible pipelines for classification, regression, and transfer learning across image and tabular data.  
Availability: Apr 15 – Aug 31, 2026.

EDUCATION

UPSSITECH – Paul Sabatier University, Toulouse 2024 - 2027  
Graduation: 06/27  
Engineering School in Robotics

CUPGE UPSSITECH – Paul Sabatier University, Toulouse 2022 - 2024  
Preparatory Class

PROJECTS

TLSE Racing Project – 2025–2026

- Built and trained perception models in PyTorch (cone/track detection) dataset curation, augmentation, evaluation
- Implemented image processing and control modules using ROS / Python / C++
- Collaborated within a multidisciplinary technical competition team

CIFAR-100 Fine-Tuning – 2025

- Implemented transfer learning with TensorFlow/Keras (MobileNetV2 baseline)
- Designed a modular training pipeline (data, model, train, eval)
- Analyzed performance/parameter trade-offs and preprocessing effects

PROFESSIONAL EXPERIENCE

ALTINET, Tarbes, 2022 -2024

- Administrative Assistant
- Managed employee personnel files
  - Entered and audited timesheets (time & attendance)
  - Prepared hiring/onboarding documents