

# Martin ACCOU

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French - 24 years old



## AI/ML Engineer

### Work experience

- 2024, 6 months **ML engineer**, D3S, Grenoble, France.
- Implementation of a 3D mesh classifier for automatic labeling of Computer-Aided Designs (CAD), leveraging a customized transformer-based architecture.
  - Implementation of a 3D instance segmentation model tailored for CAD designs.
  - Development of a software tool for easy labeling of triplets of CAD designs, used for the training of an unsupervised classification model based on triplet loss.
  - Optimized the Open Cascade linker of the 3D analytics library, written in C.
- 2023, 6 months **Research data scientist**, Reuniwatt, Saint-Pierre, France.
- Post-process day-ahead irradiance forecasts: benchmark several promising models for time series (Kalman filter, GBM, RF, SVR, MLP, N-BEATS, LSTM).
  - Introduction to the issues relative to production and Machine Learning Operations.
  - Worked in an agile team, contributing to sprint planning and iterative development.
- 2022, 6 months **Digital simulation engineer**, DGA Technique aéronautiques, Balma, France.
- Study of parachutes during a cargo dropping (FEM and CFD).
  - Learn new skills in digital simulation by working on LS-DYNA.

### Education

- 2020-2024 **Master of Science**, ISAE-SUPAERO (top 5 eng. school), Toulouse, France.
- 1<sup>st</sup> and 2<sup>nd</sup> year: general engineering courses in computer science, applied mathematics, thermodynamics, physics and mechanics.
  - 3<sup>rd</sup> year: Major in data science and data engineering. Minor in complex systems modeling and simulation: advanced statistics, HPC (OpenMP, MPI, CUDA).
- 2022 **Semester Erasmus+**, Politecnico di Milano (top 3 eng. school), Milan, Italy.
- Courses: Software development (Vue.js, Nuxt.js), reinforcement learning, space physics, aeroacoustics, multibody system dynamics.
- 2018-2020 **Preparatory classes**, Lycée Sainte-Geneviève (top 3 school), Versailles, France.
- MPSI/MP: two-year undergraduate intensive course in mathematics and physics.

### Skills

- Programming Python, Go, C, Rust, Svelte.
- Data tools PyTorch, TensorFlow, Sklearn, W&B, SQL, Spark, Dask, Docker, Kubernetes.
- Languages French (native), English (C1, TOEFL iBT : 102/120), Spanish (B1), Italian (A2).

### Interests

- Hobbies Drums, travelling, open-source, linux, cybersecurity.
- Sports Trail-running (ultramarathon), cycling, soccer (10 years in club).
- Associative Creator of the RAID trails and race chief for 2 years. The RAID ISAE is an event including mountain bike, trail-running and canoe with more than 500 competitors.