

Martin ACCOU

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French - 24 years old



AI/ML Engineer

Work experience

- 2024 - Present **ML engineer**, D3S, Grenoble, France.
- Developed a 3D mesh classifier for automatic labeling of Computer-Aided Designs (CAD), leveraging a customized transformer-based architecture.
 - Developed a 3D instance segmentation model tailored for CAD designs.
 - Developed a software tool to facilitate the labeling of CAD designs triplets for training an unsupervised classification model using triplet loss.
 - Optimized the Open Cascade linker of our 3D analytics library, written in C.
- 2023, 6 months **Research data scientist**, Reuniwatt, Saint-Pierre, France.
- Post-processed day-ahead irradiance forecasts and benchmarked various time series models, including Kalman filter, GBM, RF, SVR, MLP, N-BEATS, and LSTM.
 - Gained exposure to production challenges and Machine Learning Operations (MLOps).
 - Worked in an agile team, contributing to sprint planning and agile development.
- 2022, 6 months **Digital simulation engineer**, DGA Technique aéronautiques, Balma, France.
- Studied parachute behavior during cargo dropping using FEM and CFD.
 - Gained experience in digital simulation using LS-DYNA.

Education

- 2020-2024 **Master of Science**, ISAE-SUPAERO (*top 5 eng. school*), Toulouse, France.
- 1st and 2nd year: general engineering courses in computer science, applied mathematics, thermodynamics, physics and mechanics.
 - 3rd year: major in data science and data engineering, minor in complex systems modeling and simulation: advanced statistics, HPC (OpenMP, MPI, CUDA).
- 2022 **Erasmus+ Semester**, Politecnico di Milano (*top 3 eng. school*), Milan, Italy.
- Relevant coursework: software development (Vue.js, Nuxt.js), reinforcement learning, space physics, aeroacoustics and 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, played in an academy).
- Associative Designer of the RAID trails and race director for 2 years. The RAID ISAE is a multi-sport event featuring mountain biking, trail running, and canoeing, with over 500 competitors..