

Martin ACCOU

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French - 23 years old



Data Scientist

Work experience

- 2024, 6 months **ML engineer**, D3S, Grenoble, France.
- Implementation of a 3D Mesh classifier for automatic labeling of CAD designs, leveraging graph convolutional neural networks (GNN).
 - 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.
- 2023, 6 months **ML engineer**, 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.
- 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.
- 2021, 2 months **Aeronautical maintenance technician**, 9^{ème} régiment de soutien aéromobile de l'armée de Terre, Montauban, France.
- Discovery of the status of worker and the environment of Defence.
 - Direct handle of army helicopters (EC665 Tigre and AS532 Cougar).
- 2019 and 2020 **Summer jobs**, Centre hospitalier région de Saint-Omer, Helfaut, France.
- Work as a dishwasher and as a stretcher-bearer withing the hospital.

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.
- 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 C, C++, Rust, Java, Python, HTML/CSS, JavaScript, Nuxt.js, \LaTeX .
- Data tools PyTorch, TensorFlow, Sklearn, Pandas, SQL, Spark, Dask, Docker, Kubernetes.
- Languages French (native), English (C1, TOEFL iBT : 102/120), Spanish (B1), Italian (A2).

Interests

- Hobbies Drums, travelling, aerospace, geopolitics, Kaggle competitions.
- 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.