

Adil Zouitine

Research Engineer

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Education

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| • DISC, ISAE-Supaéro
<i>Ph.D. in Robustness to model uncertainties in reinforcement learning</i> | Toulouse, FR
<i>Expected 01/2025</i> |
| • Université Paul Sabatier
<i>MSc in Mathematics and Computer Science</i> | Toulouse, FR
<i>09/2017 - 08/2019</i> |
| • Université Paul Sabatier
<i>BSc in Mathematics and Computer Science</i> | Toulouse, FR
<i>09/2014 - 08/2017</i> |
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Professional Experience

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| • Institutes of Technological Research Saint-Exupéry
<i>Ph.D. Student, Robustness to model uncertainties in reinforcement learning</i>
– Worst-case performance certificate for model uncertainty in reinforcement learning.
<i>Machine Learning Research Engineer</i>
– Multi-agent adversarial reinforcement learning combined with game theory.
– Reinforcement Learning for Multidisciplinary Design Optimisation.
– Real-time Machine Learning with Online Learning for 5G Applications.
– Generative adversarial network for domain adaptation.
– Image segmentation with few labels.
<i>Intern in Reinforcement Learning</i>
– Reinforcement Learning for remote sensing. | Toulouse, FR
<i>01/2022 - 01/2025</i>

<i>11/2019 - now</i>

<i>04/2019 - 10/2019</i> |
| • GFI
<i>DevOps and Data intern</i>
– Deployed real time KPI for executive.
– SQL query optimization. | Toulouse, FR
<i>05/2018 - 09/2018</i> |
| • Intern at National Institute of Research for Agriculture (INRA)
<i>Software Engineer Intern</i>
– Implementation of a platform that aggregates a hundred research databases | Toulouse, FR
<i>05/2017 - 09/2017</i> |
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Publications

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| • River: machine learning for streaming data in Python.
<i>Journal of Machine Learning Research, JMLR.</i> | 2020 |
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Teaching

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| • INSA Toulouse, Master 2, Machine learning teaching assistant. | 2020, 2022 |
| • ISAE Supaero, Master 2, Machine learning teaching assistant. | 2020, 2022 |
| • Reinforcement learning teaching assistant at RLVS | 201 |
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Distinctions

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| • 7th Finalist of the International Data Analysis Olympiads - HSE Moscou - Yandex | 2021 |
| • Winner in the Continental ML hackathon | 2019 |
| • Winner of the hackaton "Défi IA 2019" - Airbus Defence and Space - INSA | 2019 |
| • 7th Finalist of the Data Science Game | 2018 |
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Side work

- **River (core-developer)** - Machine learning on streaming data with Python. 2019-now
 - **Blogging**- I started a blog where I write about machine learning. 2020
 - **Community** - I'm administrator of a French AI chat room on discord with over 3000 members. 2019
 - **Kaggle competition expert** - Peak rank : top 3% 2017
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Skills

Programming

Experienced in Python and intermediate in C++ and Rust

Data analysis

Numerous case studies done during university projects, internships, and competitions

Machine Learning

Solid knowledge of the concepts and hands-on experience. Deep Learning and Reinforcement Learning expertise.

Code quality

Healthy habits regarding coding conventions, documentation, testing and reproducibility

Software Engineering

Open Source Development, Python Packaging, Testing, CI/CD, Software Design, Cloud Computing, Docker.

Data Management

Solid knowledge of SQL and NoSQL and relational databases.

Languages

Fluent French. Professional english

Competitive Machine Learning

- Teaching
- Biking
- Programming
- Boxing
- Reading
- Snorkeling