Thomas Benchetrit

Contact

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- https://thomasbench.github.io/

Personal info

- Master in Data Science at l'EPFL (Switzerland)
- Strong curiosity in AI-Driven Cyber-security and privacy
- Interest in the interactions between new technologies and legislation practicies
- Musician & photographer

Languages

- French (native)
- English (fluent)
- Spanish (intermediate)

Technical skills

- Python, Scala, SQL,HTML/CSS/JS, C++, Matlab, Latex, Git
- PyTorch, TensorFlow, Keras, Pandas, numpy, scikit-learn, OpenCv, nltk , Plotly, matplotlib
- Hadoop & Spark
- Familiar with ReactJs, D3js and Flask/Django frameworks

Relational skills

- Curious & rigorous
- Passionate, open-minded
- Patient and great listening skills

Hobbies

- **Music**
  - Involvement in several symphonic orchestras and big bands
  - EP published on Spotify
- **Photography**
  - Portrait photographer
  - photo editing and colorimetry on Photoshop

Work experience

Open Systems AG

Data Scientist Intern (August 2022 - February 2023)

- AI-driven Threat Detection and Response
- DeepFake generation / detection to model and counter Social engineering attacks
- Automation of data-driven insights and visualisations for the Security Operation Center

Assemblée Nationale - Member of Parliament assistant

Data Scientist (July 2021 - June 2022)

- Creation of the dataclimat.fr tool, a community-based webapp to visualize climat data,
- Regular tasks of a parliamentary assistant

EPFL

Teaching Assistant in Mechanics, Thermodynamics & Algorithms (2019-2022)

- Teaching assistant for first year Physics & Micro-engineering Bachelor students

Radio France International, China section

Internship in journalism (May 2016)

- Reading and synthesising news dispatches, training in audiovisual technical professions

Education

EPFL , Lausanne, Suisse

Master in Data Sciences 2020-2022

- Anxiety detection in 19th century newspapers using custom NLP pipelines
- Music Generation using RNNs from scraped data
- Cryptography, Information security & privacy
- Distributed processing tools such as Hadoop & Spark
- Achieve state-of-the-art results with an Emotion-based image style transfer pipeline project using Python & OpenCV

Bachelor in Physics 2017-2020

- Computer simulation of physical phenomenons using C++, Qt & Matlab
- Analysis, Linear Algebra, Advanced Physics, Probabilities, Computational Physics

Uppsala Universitet, Uppsala, Suède

Academic exchange 2019-2020

- UI/UX design, Algorithms and Data Structure
- Quantum Mechanics, Computational Physics Elementary particle physics, Physics & Finance

Association life

- Active membership in the Musical, an EPFL association to promote music on the EPFL campus
- Active membership in the Coaching, the welcome structure for new-arriving students (help the new student to feel at-ease and provide assistance in their academics)
- Organization of the Physics section Spring Gala
- TV broadcast for the Balelec music festival
- Photographer for the Agepoly events