

# Ayoub EL HOUDRI

+33 7 83 22 67 03 — [ayoubelhoudri@gmail.com](mailto:ayoubelhoudri@gmail.com) — [LinkedIn](#) — [GitHub](#)

## EDUCATION

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### CY Tech (CY Paris Université)

Paris, FRANCE

*Engineering Degree: Double Major in Applied Mathematics & Computer Science (AI Track)*

2020 – 2023

- **Relevant Coursework:** C/C++, Python, R, UNIX, Information Theory, Quantum Computing & GPU, Databases, Natural Language Processing, Computer Vision, Machine Learning & Deep Learning, Probability and Simulation, Game Theory, Time Series Forecasting, Graph Theory and Optimization, Measurement Theory, Mathematical Modeling, Inferential Statistics, Signal processing, Monte-Carlo Simulation, Data Structures & Algorithms, Portfolio Management and Microeconomics.

### Lycée Jean Bart

Dunkirk, FRANCE

*Classes préparatoires, Mathematics, Physics and Computer Science*

2018 – 2020

- Advanced courses in mathematics, physics and computer science, to pass the highly competitive examinations, leading to the most prestigious schools of Science and Engineering in France “Grandes Ecoles”.

## EXPERIENCE

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### Digimind Labs GmbH

Berlin, GERMANY

*Data Science & Computer Vision Intern*

May 2021 – August 2021

- My main work, within the R&D team, was to generate and process synthetic data and use it to train some machine learning and computer vision algorithms for reconstructing 3D shapes from 2D images (Unsupervised Shape Recovery from a Single RGB Image).
- As a side project, I was in charge of automating the calculations of sustainability and life cycle assessment of a product through OpenLCA software API.

* <b>3D parametric graphic design:</b>	CADQuery, Pygalmesh, Meshio
* <b>Processing &amp; Visualizing:</b>	OpenCV, Scikit-image, Matplotlib
* <b>Data manipulation &amp; Model training:</b>	BeautifulSoup, Pandas, Tensorflow
* <b>LCA process automation &amp; Visualizing:</b>	Olca, Seaborn, Selenium

## TECHNICAL SKILLS

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<b>Languages:</b>	Python, R, VBA, C, SQL, MATLAB, Bash, Scala
<b>Frameworks:</b>	Pandas, TensorFlow, Keras, Scikit-Learn, NLTK, OpenCV, Scipy, MySQL, OpenMP
<b>Formatting Languages:</b>	HTML, $\LaTeX$ , Markdown
<b>IDE:</b>	Microsoft VS Code, Vim, Jupyter Notebook

## LANGUAGES

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<b>French:</b>	Native or bilingual proficiency.
<b>English:</b>	Full professional proficiency.
<b>Arabic:</b>	Native or bilingual proficiency.

## INTERESTS

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<b>Coding:</b>	Participation in CS events as a member of ATILLA association of code, as well as doing personal and team coding projects that can be found on my GitHub
<b>Soccer:</b>	Participation in various football tournaments with CY Tech team as well as my high school team.
<b>Mathematics:</b>	Participation in National Mathematical Olympiad.