

MÉLANIE BRÉGOU

Dual master's degree in computer vision, IA & AR/VR currently at ESA for an end-of-studies internship.

Looking for a **full time role** from September/October 2024.

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in melanie-bregou

🌐 portfolio

SKILLS

Programming : Python (Scikit-learn, Tensorflow, PyTorch), R, Java, SQL, Bash, Git, Blender, Unity (C#), React, Next.js

Soft skills : Teamwork, Communication, Leadership, Fast learner

Languages : French (C2), English (C1), Spanish (B2)

EXPERIENCE

European Space Agency - Mixed-Reality Intern

March - Sept 2024

Cologne, Germany

Implement a Medical Assistant app in **Augmented Reality (AR)** for space medicine procedures using **computer vision and AI**.

Computer vision - AI - AR/XR

Hillo - Data Scientist Intern

Summer 2023

Paris, France

Developed algorithms for **automatic data sorting** and glycemic **pattern detection** from diabetic patient datasets.

Machine learning - Azure DevOps

Foch Hospital - Data Analyst Intern

Summer 2022

Suresnes, France

Developed a graphical interface to process, visualize and analyze clinical data using **R**.

Data visualization - Git

VocaCoach - Project manager

2021 - 2022

Evry, France

Coordinating a team of 9 students to create a **database for a machine learning model** which analyzes oral expressions.

Awarded project

Management - Communication - Data collection

EDUCATION

Institut Polytechnique de Paris

2023 - 2024

Double Master's degree with courses including **Computer vision, AR/VR, IA, Computer graphics, Human-computer interfaces, Social robotics, Digital content protection, 3D reconstruction, e-Health and Bio imaging**

Télécom SudParis

2021 - 2024

Bachelor & Masters level in a highly competitive French "Grandes Ecoles" specialized in Computer science

Classes include: **Machine learning, Deep learning, Networks, Electronics, Development, Mathematics, e-health track**

Polytechnique Montréal

2022

Exchange semester : Aeronautics, Artificial intelligence, Biomedical Imaging, Entrepreneurship

Classe préparatoire aux Grandes écoles : Saint-Louis Paris

2019 - 2021

Intensive preparation in Mathematics, Physics, Computer Science for the competitive exams to enter "Grandes Ecoles"

EXTRA-CURRICULAR

Hackathons : **First prize** obtained developing a **machine learning model** predicting the conservation of species at Genopole.

Associations : Corporate relations officer at Student Art club, Member of the **photography club**

Sport & Music : Tennis (**Gold medal** at tennis national French championship UNSS 2019 in team), Bouldering, Guitar, Piano

Traveling : Canada (6 months), Germany (6 months), UK (2 months), Ireland (1 month), Czech Republic (2 weeks)