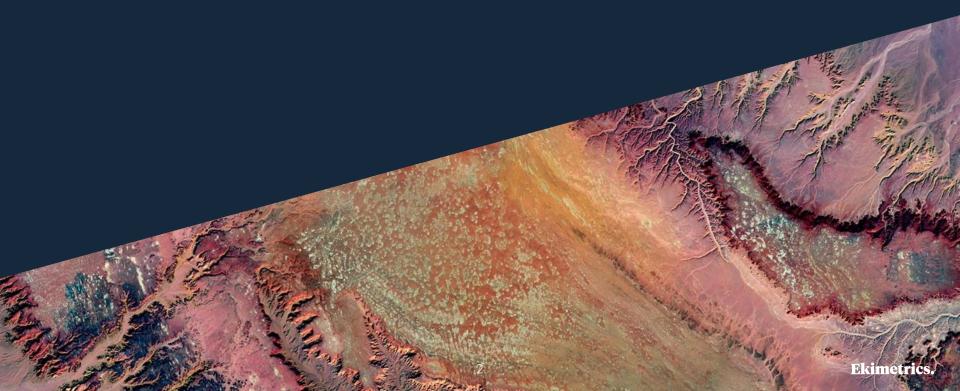
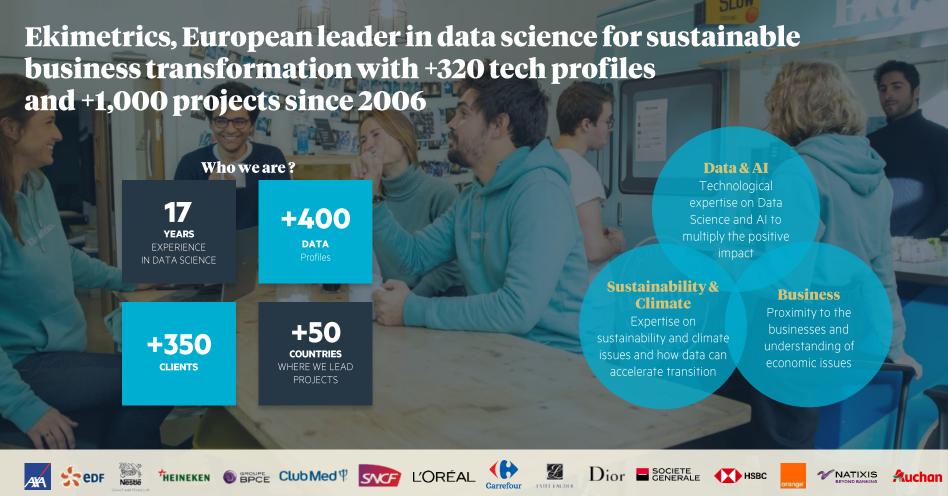


# Kick Off Hackathon















































## Our mission and purpose

Data Science for sustainable business transformation

#### A good company

Delivering Data Science for business solutions since 2006 with 400+ tech **profiles** in 4 countries

A company that **commits to higher** standards & responsibilities,

"Entreprise à Mission" since April 2023, on the road towards BCORP in 2024 and Net Zero by 2030

One of the 30/150 precursor members of the 2021-2022 "Convention des **Entreprises pour le Climat**"

#### **Doing sustainable AI**

100% of Eki employees trained and aware on social & environmental challenges (Climate Fresk, Climate trainings. Vendredi challenges).

Strongly against using technology for the sake of technology. We invest in R&D to develop unbiased and lowcarbon footprint AI algorithms, and always rethink why we solve problems and how we can develop frugal tech solutions.

**Open sourcing** our best practices on our Fki.Lab website https://ekimetrics.github.io/

#### For positive impact

**Partnerships** with sustainability & climate specialists







Active member of the "tech for good" ecosystem









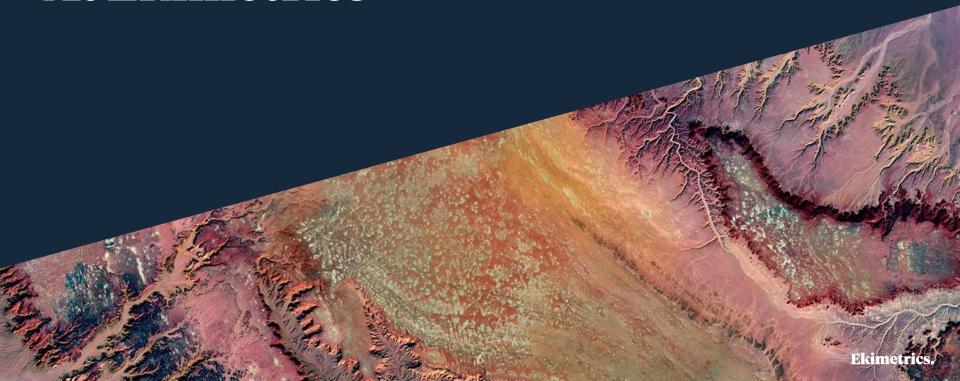


Al for Sustainability solutions help businesses perform within the planetary boundaries and transition to a lowcarbon economy





# Responsible AI At Ekimetrics



## The Responsible AI team



Annabelle



Clément



Ana



Joséphine



Jeanne



Milan

## Sustainability

Legal

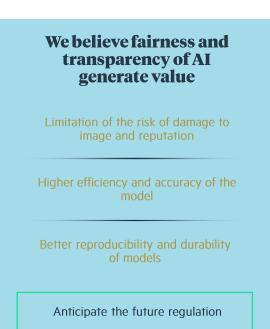
**DEA** 

Inno

Com

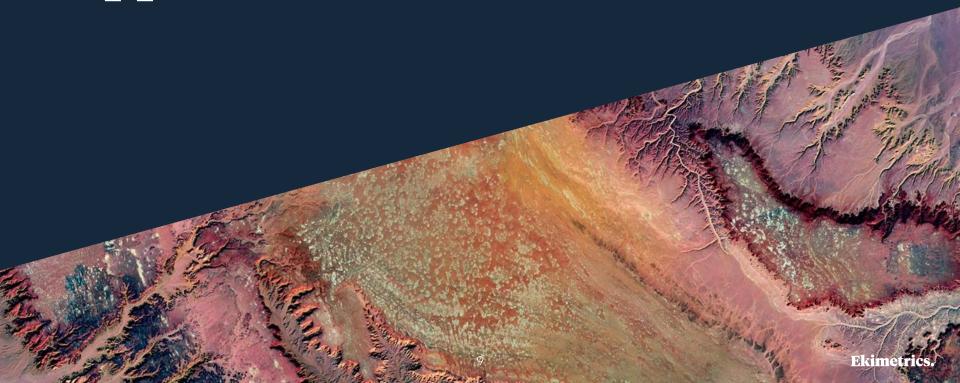
# Our AI methodology is Responsible and certified by LabelIA







# Subject and Support team



### **Subject and deliverables**

During this hackathon, you will be asked to act as if you were Ekimetrics consultants working for a tech firm that wants to design a solution to **automatize a part of their recruitment process**, while making sure this solution **does not present any discriminatory bias.** 

#### **Deliverables**

**Unbiased candidate selection model** for this company's HR department, based on the dataset provided.

Presentation of this solution with a **10 minutes ppt presentation** in front of a Jury, followed by 5 minutes Q&A, at Ekimetrics office,.

The presentation must include:

- **Technical specificities** of the model (decisions, performance...)
- Its **responsible** aspect (fairness score...)
- Its business advantage for the company (productivity gains, financial benefit...)

#### **Evaluation grid**

The group work will be evaluated according to the following criterias:

- Chosen fairness metric scores
- Model performance
- Business advantage of the solution
- Group presentation

#### Hackathon recommended structure & timeline

#### **Structure**

- O. Data exploration and bias identification

  Given dataset and notebook
- Think of a solution to pass by those biases
   Discussion with the Eki consultant team to guide you
- **2. Implement the solution and challenge it** Accuracy, recall, ethic?
- **3. Thinks of business analytics in your solution** ROI, business impact?
- **4. Final Presentation**PPT presentation, 10 min per group

#### **Timeline**

#### 6.11 5:30pm - Hackathon Kick Off

Where: Online meeting

**Who:** Ekimetrics team, jury members, students

#### 6.11 > 24.11 - Hackathon Support

Where: Slack

**Who:** Ekimetrics team available daily to answer student's questions

Where: Online meeting

Who: Q&A sessions organized online

#### 24.11 2pm- Final Presentations

Where: Ekimetrics Office (36 rue Lafayette)
Who: Ekimetrics team, jury members, students

4pm- Afterwork

Ekimetrics.

#### **About us**



**Hiba JOUINI**Data Science Consultant



**Jeanne DUBOIS**Data Science Consultant



**Leopold MENDES-CHARINNHO**Data Science Consultant



**Matteo BENAUD**Data Science Consultant



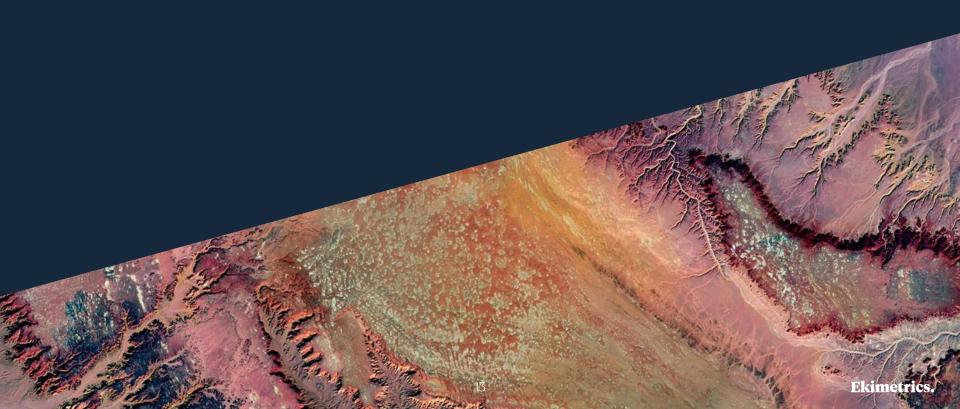
**Hamza EL FERGOUGUI**Data Science Consultant



**Lola SPASOJEVIC**Data Science Consultant

Ekimetrics.

# Fairness in HR



## Fairness and Responsible AI should be at the heart of HR solutions

## Action matrix with regards to the risk of presence of bias

Impact risk, if bias present

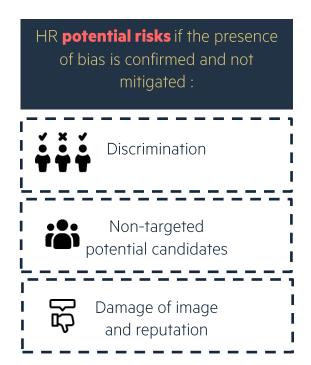
Measure, inform & correct

\*\*

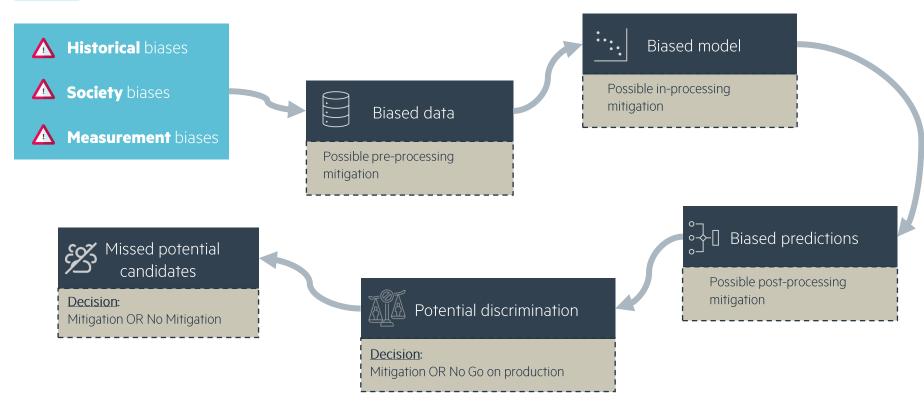
No risk

Measure, inform & offer to correct

Bias presence risk



## Origine of biaises and mitigation options HR – a sector particularly exposed to biases



**Ekimetrics**.

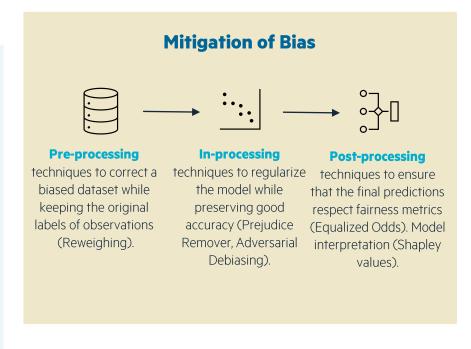
# Studying for biases in data to increase model performance and limit reputation risks and regulatory infringements

#### **Identification of Bias**

Checklist, Exploratory Analysis,
Bias Metrics to identify
cognitive biases and
machine learning biases

(historical, representation, measurement biases).

Having transparent and unbiased data processing capabilities and algorithms are a prerequisite to enable adoption at large.



We believe fairness and transparency of AI generate value

#### **Business Gains**

Generate **short-term gains**due to a higher efficiency and
accuracy of the model:
customer characteristics are
better considered and
addressed, and no potential
customers are excluded

Generate **long-term gains**due to limitation of the risk of
damage to image and
reputation. They must
especially be enforced when
the AI is in direct contact with
the consumer.



**Ekimetrics.**