

Lets learn about bias and how we can commit to
developing systems in a more ethical manner!

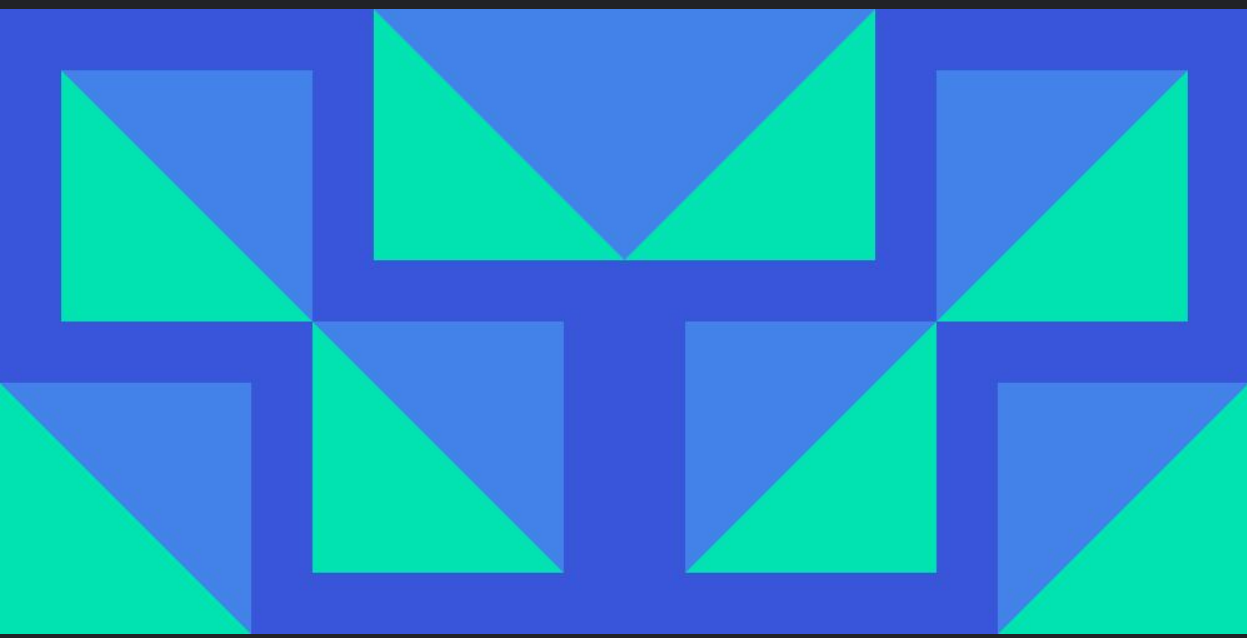
BIAS IN AI/ML

Hi im Alina!





Overview



- Introduction
- Types of Bias
- Causes of Bias
- Impact of Bias
- Mitigating Bias
- Case Studies
Conclusion

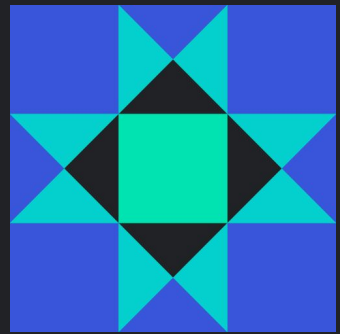
WHAT IS AI/ML?

Artificial Intelligence

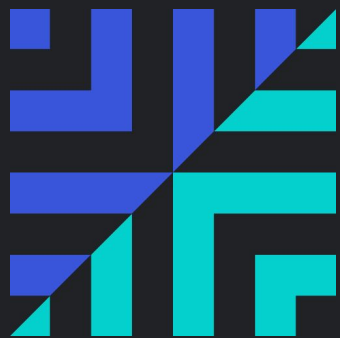
Machine Learning

WHY IS IT CRITICAL TO UNDERSTAND BIAS?

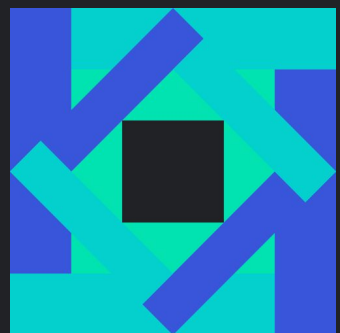
TYPES OF BIAS



ALGORITHMIC
BIAS



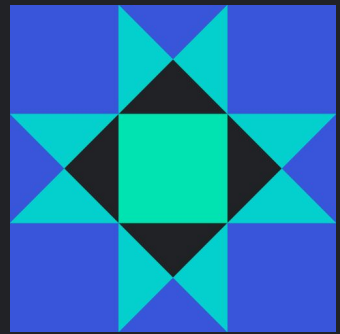
DATA BIAS



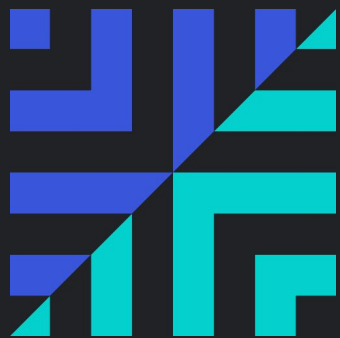
HUMAN BIAS



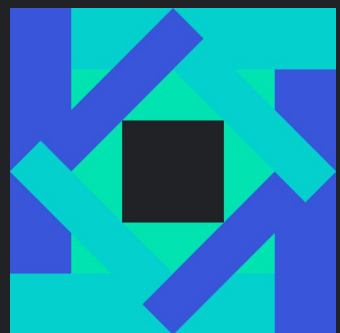
CAUSES OF BIAS



DATA QUALITY



DATA
REPRESENTATION



ALGORITHMIC
DESIGN



IMPACTS OF BIAS

How are we affected and how are we responding?

SOCIAL AND ETHICAL IMPLICATIONS

Discrimination

Violation of human
rights/privacy

IMPACTS IN INDUSTRIES

Employment

Criminal Justice

Healthcare

LEGAL AND REGULATORY CONSEQUENCES

Data Privacy

Intellectual Property

Regulations



MITIGATING BIAS

A hope for the future

Data Collection

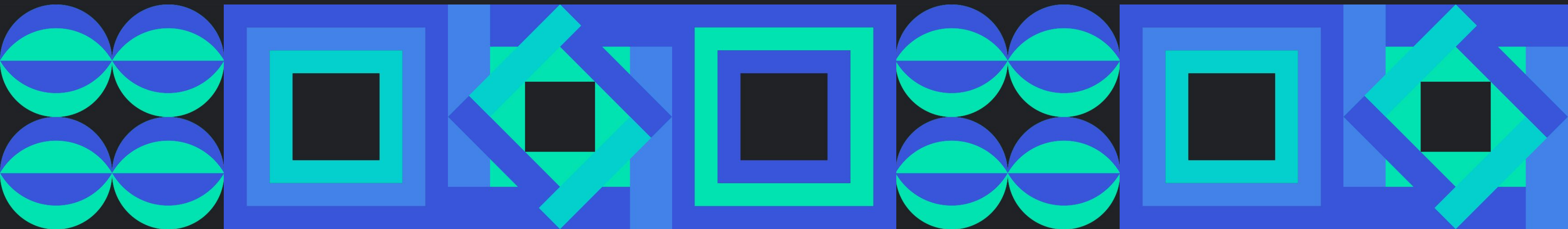
Algorithm Design

Model monitoring
metrics

Ethical and Legal
consideration

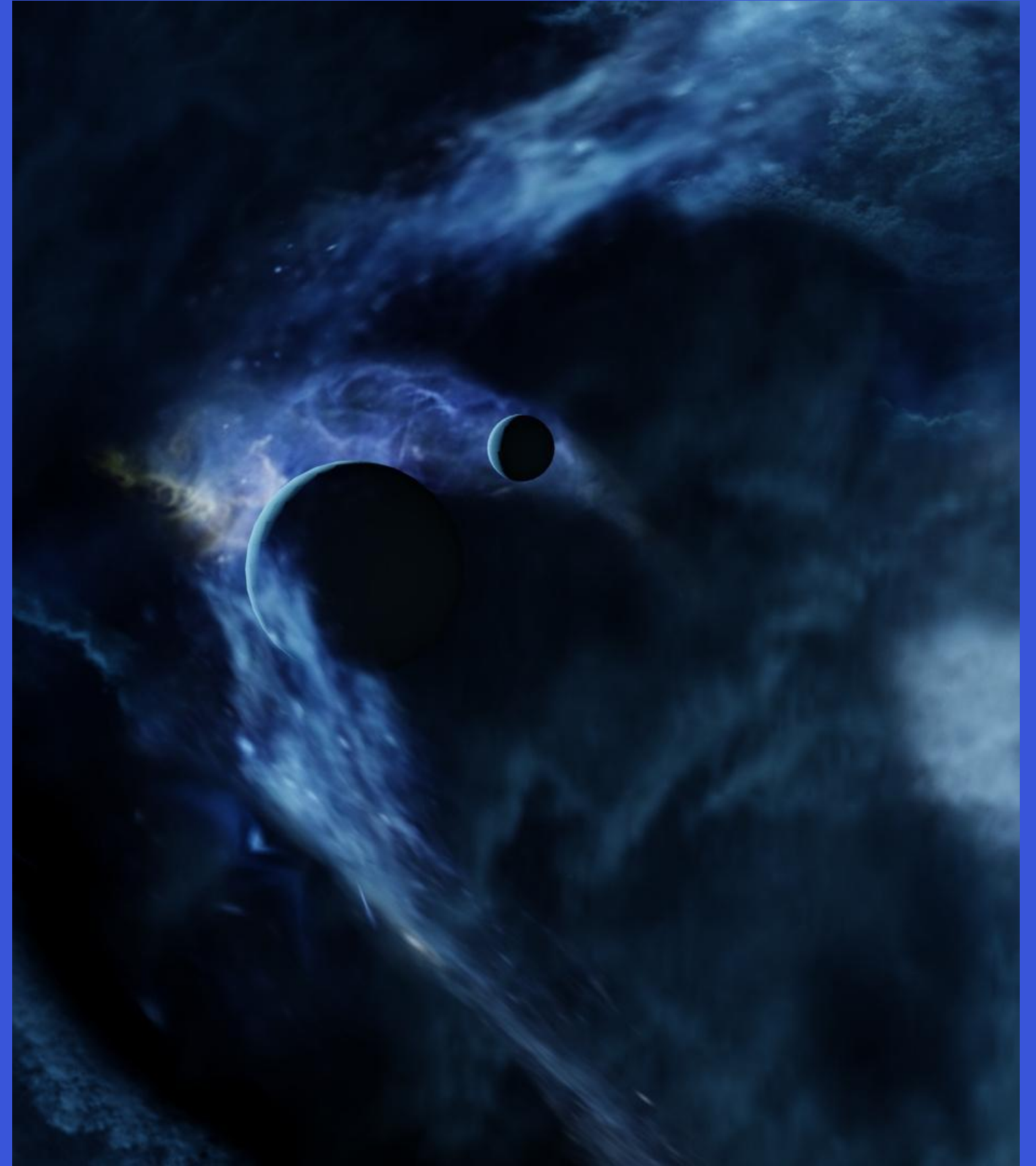
Multi-disciplinary
standardization of
practices

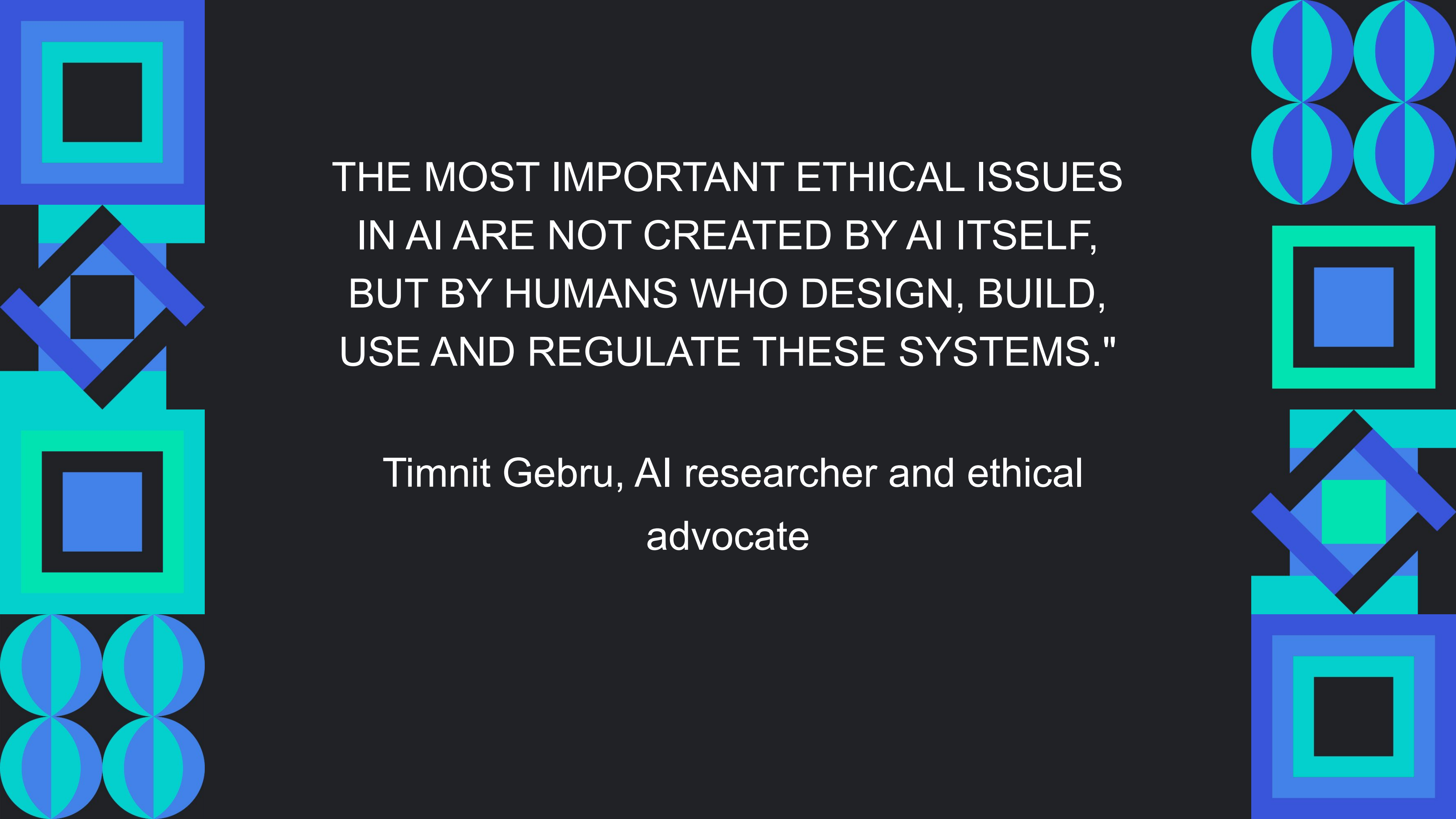
Human Precedence



CASE STUDIES

Time for discussion!





THE MOST IMPORTANT ETHICAL ISSUES
IN AI ARE NOT CREATED BY AI ITSELF,
BUT BY HUMANS WHO DESIGN, BUILD,
USE AND REGULATE THESE SYSTEMS."

Timnit Gebru, AI researcher and ethical
advocate

Thank You!

