

The Alan Turing Institute

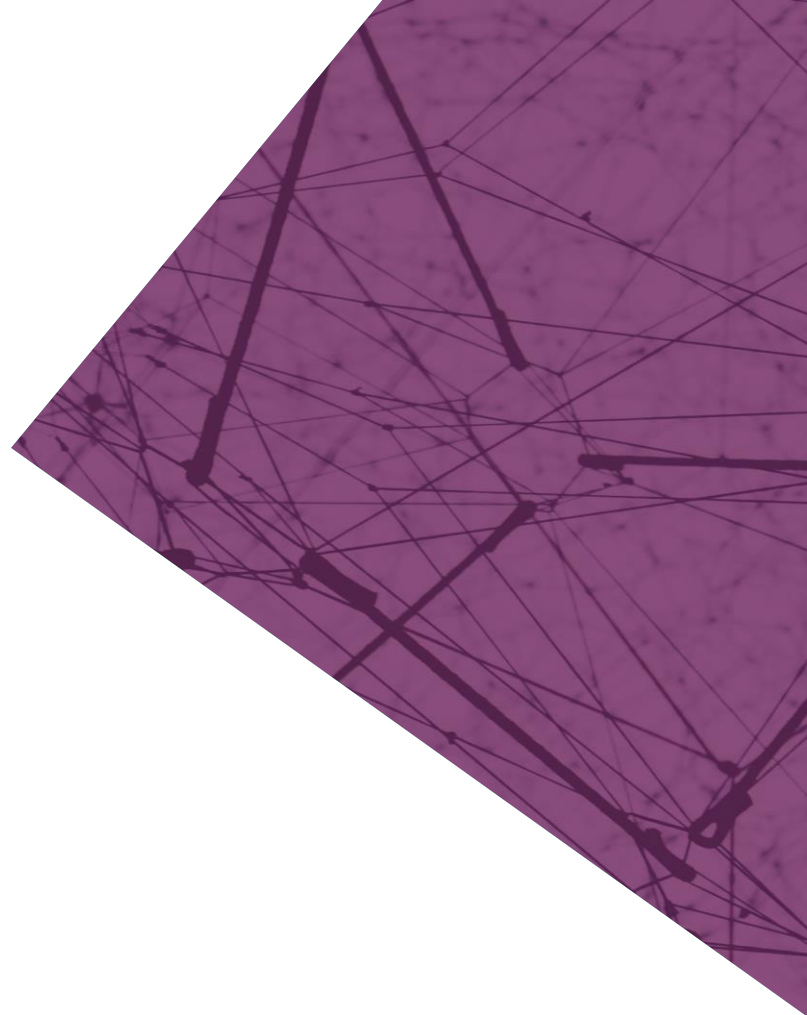
Milestone 3

**Sources, Forms, and Quantification of
Bias and Discrimination in Supervised
Learning**

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Course Overview

Learning at the Turing

Part I: Ethical, Legal, and Governance

Milestone 1. Notions of Fairness

Milestone 2. Legal and Governance aspects of AI Fairness

Part II: Technical dimensions in Supervised ML

Milestone 3. Sources, Forms, and Quantification

Milestone 4. Mitigation

Milestone 5. Trade-offs and Interactions with other verticals in Trustworthy AI

Milestone Overview

Learning at the Turing

- **Part 1: Theory** → [Slides + Supporting notebook](#)
 1. Real-life examples of bias in algorithms
 2. Type and sources of Bias
 3. Quantification of Bias: Fairness definitions and metrics
 4. Choosing a metric
- **Part 2: Practice** → [Notebooks](#)
 1. Explore the data
 2. Quantify bias manually
 3. Quantify bias using holisticai
 4. Getting a confidence interval