# Privacy

## Responsible Al: Human-Centered Design

START DESIGN DEVELOPMENT DEPLOYMENT END

#### Course 1

Fundamentals of TinyML

- What am I building?
- Who am I building this for?
- What are the consequences for the user if it fails?

#### Course 2

Applications of TinyML

- What data will be collected to train the model?
- Is the dataset **biased**?
- How can we ensure the model is fair?

#### Course 3

Deploying TinyML

- How will model drift be monitored?
- How should security breaches be addressed?
- How should the user's privacy be protected?

## Why is privacy valuable?

- Prevent information-based harms
  - o Minimize opportunities for hackers to gain inappropriate access to data
- Prevent informational injustice and discrimination
  - Consider the context, the type of information, and who has access
- Preserve autonomy and human dignity
  - Obtain informed consent

### How can **privacy be preserved**?

- Minimize
  - Avoid collecting unnecessary data, and dispose or delete data periodically
- Protect
  - Use encryption techniques to protect data
- Map the flow of information
  - Context, the type of information, and who has access
- Informed consent
  - Be transparent with users about how their data is being collected and used