

Implementing Responsible ML



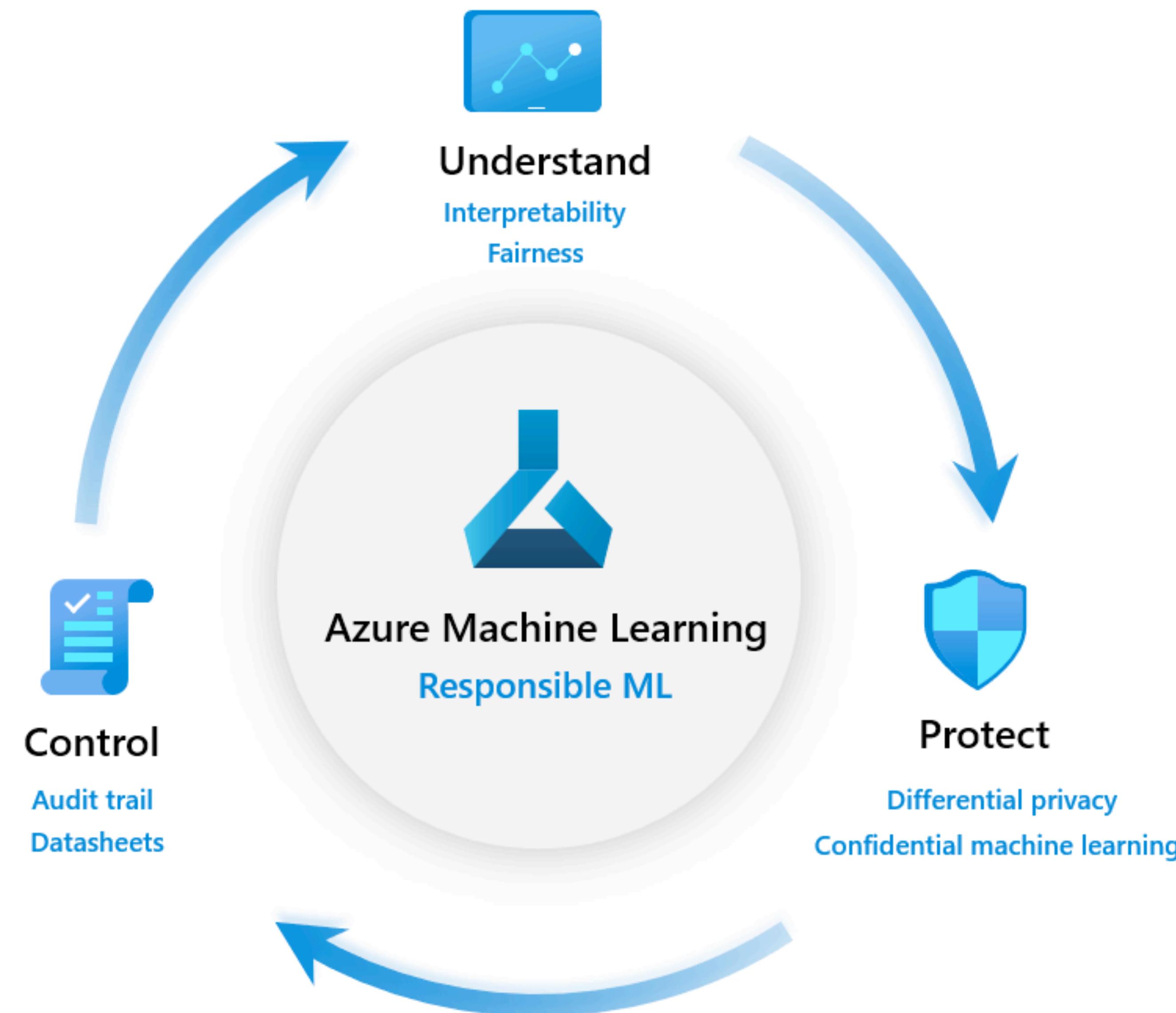
Axel Sirota

AI and Cloud Consultant

@AxelSirota

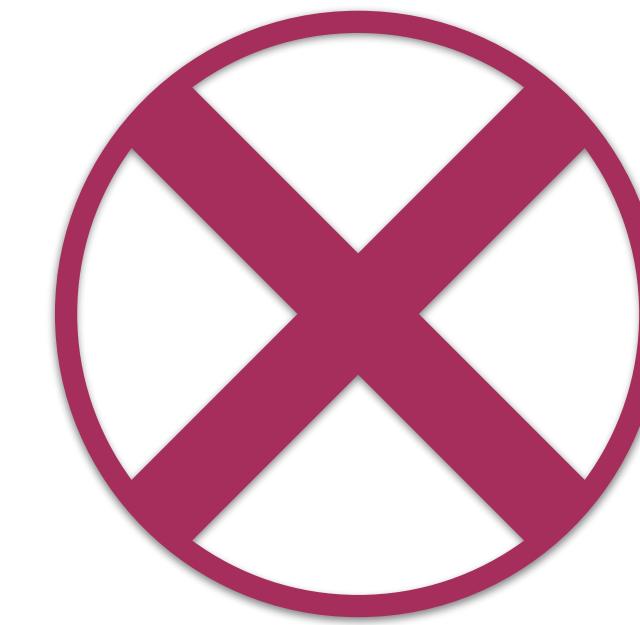
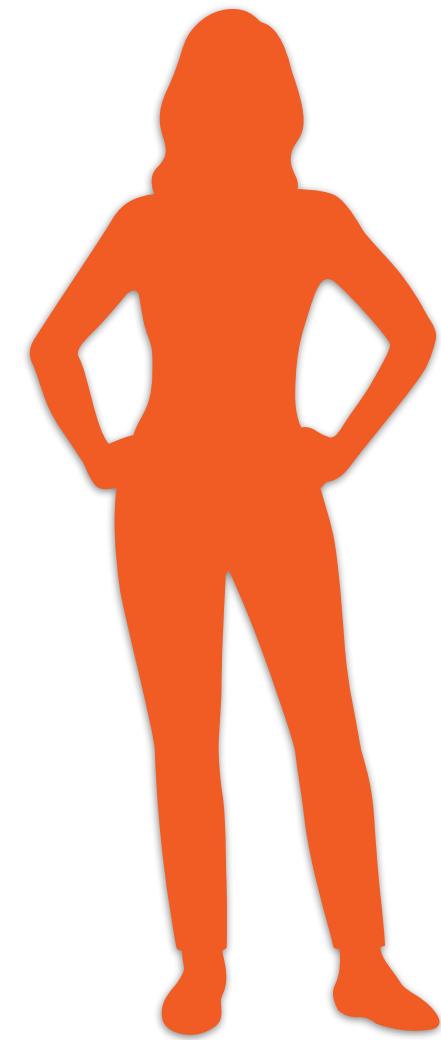


Responsible ML



Work proactively towards a
safer, easily explainable, and
ethical ML

How to Interpret a Rejection?



Model interpretability we may trace a model using politically incorrect or biased features like race, age, sex, gender, or plain stereotypes.

Fairness in AI

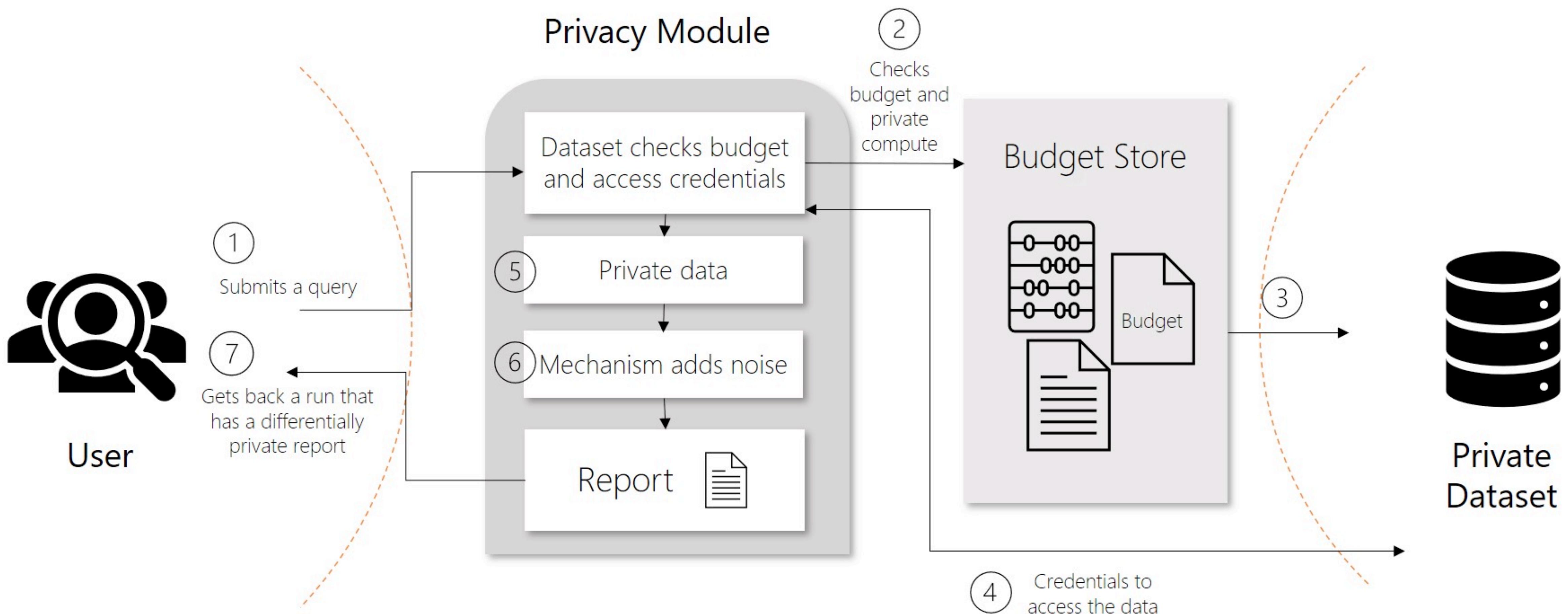


**Withholding opportunities,
resources or information from
individuals**



**Reinforcing biases and
stereotypes**

Differential Privacy



We have the responsibility of
not disrupting the justice
balance in the world by sending
an opaque model into the wild.

Demo

Diabetes Model interpretability

- How to interpret our diabetes regression model?

Demo

Analyse fairness in our diabetes model

Takeaways for the DP-100



Responsible ML encompasses understanding, protecting and recording the process of creating our ML models



We understand models by interpretability and fairness



We protect users from unwanted data leaks using differential privacy and working from encrypted datastores



We record the process using data sheets to understand possible unfair features we have included to improve accuracy

Keys for the DP-100

Practice filling the code under exercises in the demos to interact with Azure ML yourself

Recall which area does responsible ML encompasses

