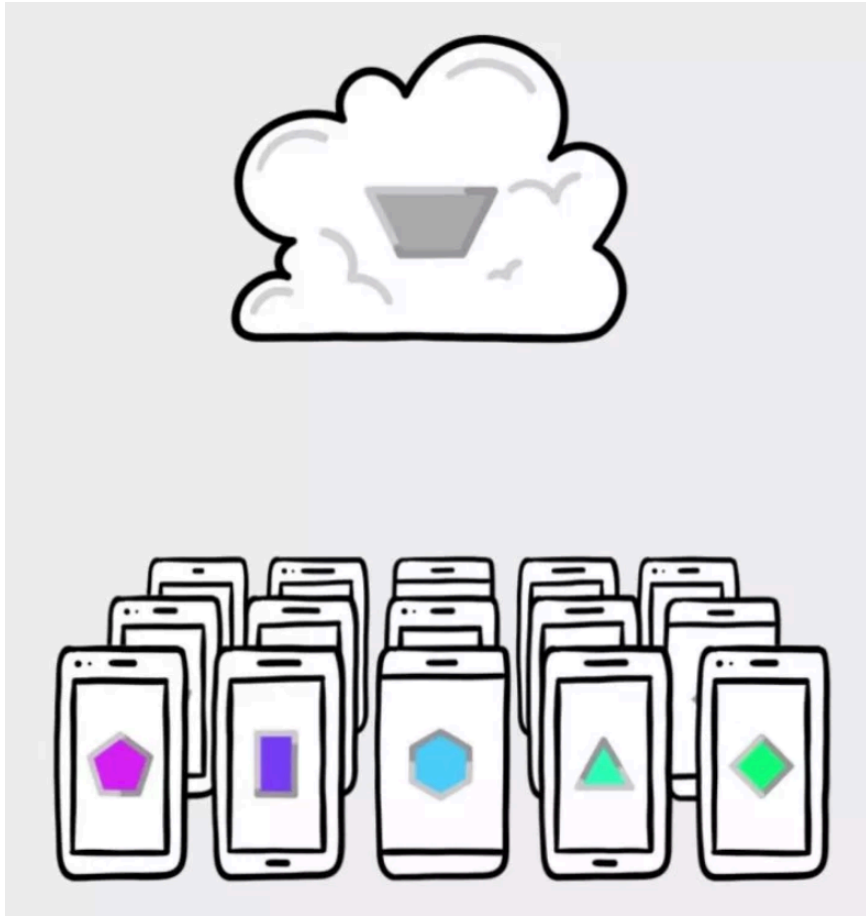


# Motivating Examples



**Problem:** Google wants to train a model using users' mobile data.

**Possible solution:** Centralized learning

- Collect users' data.
- Train a model on the cluster.

**Challenge:** Users may refuse to upload their data, especially sensitive data, to Google's server.