

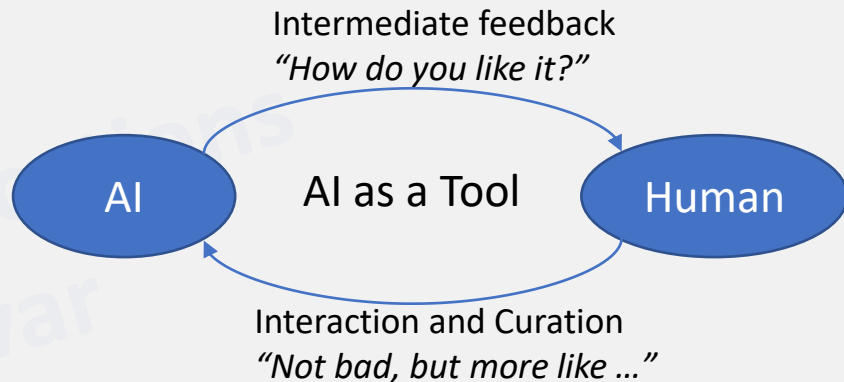


# **CLOUD COMPUTING APPLICATIONS**

Cloud Machine Learning: Human in the loop AI  
Prof. Reza Farivar

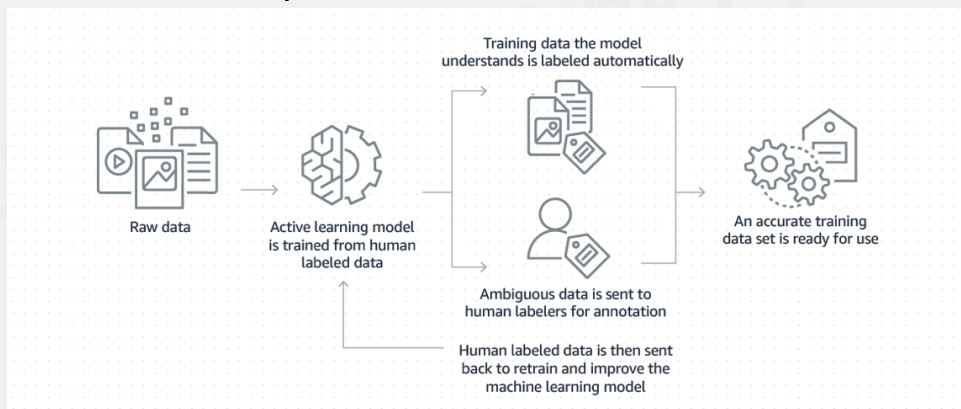
# Human in the loop

- Instead of removing human involvement, use selective inclusion of human participation
- Harness the efficiency of computers, while utilizing human intelligence
- reframe an automation problem as a Human-Computer Interaction (HCI) design problem
- Benefits:
  - Gain in transparency
  - Human judgement
  - No need to build the perfect AI system



# Human in the loop ML

- Amazon SageMaker Ground Truth
- Build accurate datasets
  - Your own data labelers
  - Cloud-provided: Amazon Mechanical Turk



# Human in the loop ML

- Amazon Sagemaker Augmented AI
- Human review of ML predictions
  - Your own reviewers
  - Cloud-provided: Amazon Mechanical Turk

