



Amazon Mechanical Turk



WHAT IS MTURK

- Amazon web service for crowdsourcing data from human participants
- Partially interactive with integrated tools, such as ability to draw bounding boxes.
- Paid Service



TERMS USED IN MTURK

- Requester :Person requesting work(you)
- Worker:Person who completes job(can select job based on pay)
- Requester create a request account and worker create worker account



- HIT(Human Intelligence Task)
- MTurk Integrated Experiment: each task/question the worker must complete(1 batch usually has multiple HITs)
- External Experiment:each publish job(batch)the worker must complete(1 batch has 1 HIT)
- Assignment:How many works you want to complete



TWO WAYS TO DO EXPERIMENTS

1. Using integrated tools

- Survey
- Image classification
- Image tagging
- Bounded boxes
- Audio/Video



2.Design the experiment externally

- External surveys(e.g google form)
- Link to a virtual 3D game hosted on the web



USE CASE

- MTurk can be a great way to minimise the costs and time required for each stage of development .
- It is easy to collect and annotate the massive amounts of data required for training machine learning(ML) models with MTurk. Building an efficient machine learning model also requires continuous iterations and corrections .

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- Another usage of MTurk for ML development is human-in-the-loop(HITL) where human feedback is used to help validate and retrain your model



HOW DOES MTURK WORK?



Requesters have tasks they
need to be completed



MTurk Marketplace



Workers want to earn
money and work
on interesting tasks



TURKERS VS REQUESTORS

“Turkers”



Requestors





Testing environment for building/testing experiment for free we use :

Requestor Sandbox :

<https://requestersandbox.mturk.com/developer/sandbox>

Worker Sandbox:

<https://workersandbox.mturk.com/>



THANK YOU