

# Lab 3 Walkthrough

# Mechanical Turk

Crowdsourcing

- Mechanical Turk is a work infrastructure that allows people to perform quick tasks over the web for a small payment
- Human Intelligence Task (HIT)
  - a task that a **Requester** submits to Amazon Mechanical Turk for **Workers** to perform, e.g., transcribe an audio, tag an image
- The **requester** creates the HIT and pays the workers
- The **worker** chooses a HIT they like and are qualified to do

The screenshot shows a web browser window for the Amazon Mechanical Turk Developer Sandbox. The URL in the address bar is highlighted with a yellow box. The page header includes the Amazon logo and navigation links for Create, Manage, and Developer. A banner at the top states "Mechanical Turk Developer Sandbox" and "This site is for test and development only. Learn more". On the left, a sidebar lists various task types under "New Project": Survey (Survey Link, Survey), Vision (Image Classification, Bounding Box, Semantic Segmentation, Instance Segmentation, Polygon, Keypoint, Image Contains, Video Classification, Moderation of an Image, Image Tagging, Image Summarization), and Language (Sentiment Analysis, Collect Utterance, Intent Detection, Emotion Detection, Semantic Similarity, Conversation Relevance). The main content area shows a form for creating a new project. It has fields for "Survey link:" containing "http://example.com/survey345.html" and "Provide the survey code here:" with "e.g. 123456". A blue callout box points to the "Survey link:" field with the text "to start a new project". Another blue callout box points to the top right of the page with the text "Sign in with your Amazon account or create an new account". A yellow box highlights the "Create an Account" and "Sign In" links in the top right corner.

New Project | Create | Requester +

← → C https://requestersandbox.mturk.com/create/projects/new

UW Libraries Proxy... SVG Crowbar

Mechanical Turk Developer Sandbox  
This site is for test and development only. [Learn more](#)

amazon mturk Requester Create Manage Developer

New Project

Select a customizable template to start a new project

Survey Survey Link Survey

Vision

- Image Classification
- Bounding Box
- Semantic Segmentation
- Instance Segmentation
- Polygon
- Keypoint
- Image Contains
- Video Classification
- Moderation of an Image
- Image Tagging
- Image Summarization

Language

- Sentiment Analysis
- Collect Utterance
- Intent Detection
- Emotion Detection
- Semantic Similarity
- Conversation Relevance

Survey Link Instructions (Click to expand)

Survey link:

Provide the survey code here:  
e.g. 123456

You must ACCEPT the HIT before you can submit the results.

Create an Account Already have an account? Sign In Requester

Make sure you go to the “sandbox”.

- The "Sandbox" mode is a test version of the MTurk marketplace. You can use it to test publishing and completing tasks without paying any money.

Sign in with your Amazon account or create an new account

# Steps

- Create a HIT
  - design the interface for annotation
  - configure the job properties
- Publish a batch
  - upload data for annotation
- Monitor and review results

New Project | Create | Requester + New

← → ⌛ 🔒 https://requestersandbox.mturk.com/create/projects/new

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New Project New Batch with an Existing Project

Select a customizable template to start a new project

Survey

- Survey Link
- Survey

Vision

- Image Classification
- Bounding Box
- Semantic Segmentation
- Instance Segmentation
- Polygon
- Keypoint
- Image Contains
- Video Classification
- Moderation of an Image
- Image Tagging
- Image Summarization

Language

- Sentiment Analysis
- Collect Utterance
- Intent Detection**
- Emotion Detection
- Semantic Similarity
- Conversation Relevance
- Audio Transcription
- Document Classification
- Translation Quality
- Audio Naturalness

Others

≡

Pick the most relevant intention expressed by the below text

Hello, I'd like a large pizza

Select an option

Order	1
Cancel	2
Return	3

Create a project using the provided template

Submit

Create Project

New Project | Create | Requester + New

← → ⌛ 🔒 https://requestersandbox.mturk.com/create/projects/new

UW Libraries Proxy... SVG Crowbar

New Project New Batch with an Existing Project

Select a customizable template to start a new project

Survey

- Survey Link
- Survey

Vision

- Image Classification
- Bounding Box
- Semantic Segmentation
- Instance Segmentation
- Polygon
- Keypoint
- Image Contains
- Video Classification
- Moderation of an Image
- Image Tagging
- Image Summarization

Language

- Sentiment Analysis
- Collect Utterance
- Intent Detection**
- Emotion Detection
- Semantic Similarity
- Conversation Relevance
- Audio Transcription
- Document Classification
- Translation Quality
- Audio Naturalness

Others

≡

Pick the most relevant intention expressed by the below text

Hello, I'd like a large pizza

Select an option

Order	1
Cancel	2
Return	3

Create a project using the provided template

Submit

Create Project

Create | Requester | Amazon Mechanical Turk

https://requestersandbox.mturk.com/create/projects/83985/edit

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## Edit Project

Specify the properties that are common for all of the tasks created using this project.

① Enter Properties   ② Design Layout   ③ Preview and Finish

Project Name: Intent Detection This name is not displayed to Workers.

Describe your task to Workers

Title: Select the most relevant intention expressed by the text

Description: Select the most relevant intention expressed by the text

Keywords: text, classification, intent

Setting up your task

Reward per assignment: \$ This is how much a Worker will be paid for completing an assignment. Consider how long it will take a Worker to complete each assignment.

Number of assignments per task: 3 How many unique Workers do you want to work on each task?

Time allotted per assignment: 1 Hours

**Project Name (not displayed to workers)**

**Task information (displayed to workers)**

- be informative

Create | Requester | Amazon Mechanical Turk

https://requestersandbox.mturk.com/create/projects/83985/edit

UW Libraries Proxy... SVG Crowbar

Keywords: text, classification, intent

Provide keywords that will help Workers search for your tasks.

Setting up your task

Reward per assignment: \$ [input field]

This is how much a Worker will be paid for completing an assignment. Consider how long it will take a Worker to complete each assignment.

Number of assignments per task: 3 [input field]

How many unique Workers do you want to work on this task? You can have up to 100 workers per task.

Time allotted per assignment: 1 Hours [input field]

Maximum time a Worker has to work on a single task. If a worker does not finish within this time, they will be paid but not credited.

Task expires in: 7 Days [input field]

Maximum time your task will be available to Workers on Mechanical Turk.

Auto-approve and pay Workers in: 3 Days [input field]

This is the amount of time you have to reject a Worker's assignment after they submit the assignment.

Worker requirements

Require that Workers be Masters to do your tasks. ([Who are Mechanical Turk Masters?](#))

Yes  No

Specify any additional qualifications Workers must meet to work on your tasks:

The money you pay for each assignment.

- In the sandbox, your Current Balance is always \$10,000.00.

Number of workers (annotations) you want for each datapoint

- it is usually good to have more than one annotations on each datapoint

Within this time frame after an assignment is submitted, you can reject a worker's annotation. After this time frame, the worker will be paid for the submitted assignment.

Create | Requester | Amazon Mechanical Turk

https://requestersandbox.mturk.com/create/projects/83985/edit

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How many unique Workers do you want to work on each task?

Time allotted per assignment: 1 Hours

Maximum time a Worker has to work on a single task. Be generous so that Workers are not rushed.

Task expires in: 7 Days

Maximum time your task will be available to Workers on Mechanical Turk.

Auto-approve and pay Workers in: 3 Days

This is the amount of time you have to reject a Worker's assignment after they submit the assignment.

Worker requirements

Require that Workers be Masters to do your tasks (Who are Mechanical Turk Masters?)

Yes  No

Specify any additional qualifications Workers must meet to work on your tasks:

(+) Add another criterion (up to 5)

(Premium Qualifications incur additional fees, see Pricing Details to learn more)

Project contains adult content (See details)

This project may contain potentially explicit or offensive content, for example, nudity.

You can set requirements (e.g., geographic locations) to only allow certain types of workers

- keep them to default for this lab

Save and go to the next page

Save Design Layout

Create | Requester | Amazon Me X +

← → C https://requestersandbox.mturk.com/create/projects/83985

UW Libraries Proxy... SVG Crowbar

Your project was successfully saved.

## HTML Elements Reference

<https://docs.aws.amazon.com/sagemaker/latest/dg/sms-ui-template-reference.html>

Use the HTML editor below to design the layout of your task, which Workers will complete.

You can use any HTML, CSS, or JavaScript to customize your layout.

Or use Crowd HTML Elements to simply design your layout.

This layout is common for all of the tasks created with this project. You can define variables (eg \${variable\_name}) for data that will vary from task to task, based on your CSV input file (Learn more).

① Enter Properties ② Design Layout ③ Preview and Finish

```
8- <crowd-form answer-format="flatten-objects">
9-
10-   <!-- The crowd-classifier element will create a tool for the Worker to select the
11-       correct answer to your question -->
12-   <crowd-classifier
13-     categories="['Order', 'Cancel', 'Return']"
14-     header="Pick the most relevant intention expressed by the below text"
15-     name="intent">
16-
17-     <!-- The text you want classified will be substituted for the "text" variable when you
18-         publish a batch with a CSV input file containing multiple text items -->
19-     <classification-target> ${text} </classification-target>
20-
21-     <!-- Use the short-instructions section for quick instructions that the Worker
22-         will see while working on the task. Including some basic examples of
23-         good and bad answers here can help get good results. You can include
24-         any HTML here. -->
25-
26-     <short-instructions> SHORT INSTRUCTIONS TBD </short-instructions>
27-
28-     <!-- Use the full-instructions section for more detailed instructions that the
29-         Worker can open while working on the task. Including more detailed
30-         instructions and additional examples of good and bad answers here can
31-         help get good results. You can include any HTML here. -->
32-     <full-instructions header="Intent Detection Instructions">
33-       <p>Select the most relevant intention expressed by the text.</p>
34-       <div>
35-         <p><strong>Example: </strong>I would like to return a pair of shoes</p>
36-         <p><strong>Intent: </strong>Return</p>
37-       </div>
38-     </full-instructions>
39-
40-   </crowd-classifier>
```

Save Preview

Categories the worker can choose from.

`\${text}`: the 'text' column in the csv  
file you are going to upload

Instructions

Create | Requester | Amazon Me X +

← → C https://requestersandbox.mturk.com/create/projects/83985

UW Libraries Proxy... SVG Crowbar

Your project was successfully saved.

### Edit Project

This is how your task will look to Mechanical Turk Workers. Before you publish these tasks, any variables (eg \${variable\_name}) in the layout will be replaced with the input data that you provide when you publish your batch. You can download a sample of the CSV input file for this project or learn more about acceptable file formats.

① Enter Properties ② Design Layout ③ Preview and Finish

Select the most relevant intention expressed by the text

Requester: uwes596convai Reward: \$0.02 per task Tasks available: 0 Duration: 1 Hours

Qualifications Required: None

Previewing Answers Submitted by Workers

This message is only visible to you and will not be shown to Workers.  
You can test completing the task below and click "Submit" in order to preview the data and format of the submitted results.

**<short-instructions> ...**

Instructions **<classification-target> ...**

[View full instructions](#)

[View tool guide](#)

SHORT INSTRUCTIONS TBD

Pick the most relevant intention expressed by the below text

**<text>**

Select an option

Order	1
Cancel	2
Return	3

**<crowd-classifier categories="[" ...**

Finish

The screenshot shows the 'Edit Project' screen in the Amazon Mechanical Turk Create Project interface. At the top, there's a yellow banner stating 'Your project was successfully saved.' Below it, the title 'Edit Project' is displayed. A note explains that the task will look to Mechanical Turk Workers, mentioning variable replacement, CSV samples, and acceptable file formats. Three tabs are at the top: 'Enter Properties' (selected), 'Design Layout', and 'Preview and Finish'. The main area shows a task preview with fields for Requester, Reward, Tasks available, and Duration. It includes a 'Qualifications Required: None' section. A message box says 'Previewing Answers Submitted by Workers' with instructions to test and submit. On the left, under 'Instructions', there's a 'View full instructions' link, a 'View tool guide' link, and a placeholder 'SHORT INSTRUCTIONS TBD'. A large blue box highlights the text '<short-instructions> ...'. In the center, a text input field contains '\${text}' with a red box around it, and a red box also surrounds the 'Select an option' dropdown menu on the right which lists 'Order 1', 'Cancel 2', and 'Return 3'. A blue box highlights the text '<classification-target> ...' below the instructions and the text '<crowd-classifier categories="[" ...' below the options. A blue arrow points from the 'Short Instructions' text to the 'Instructions' section. Another blue arrow points from the 'Classification Target' text to the text input field. A third blue arrow points from the 'Crowd Classifier Categories' text to the 'Select an option' dropdown. At the bottom right is a 'Finish' button.

Your project was successfully saved.

## Edit Project

This is how your task will look to Mechanical Turk Workers. Before you publish these tasks, any variables (eg \${variable\_name}) in the layout will be replaced with the input data that you provide when you publish your batch. You can download a sample of the CSV input file for this project or learn more about acceptable file formats.

① Enter Properties

② Design Layout

③ Preview and Finish

Select the most relevant intention expressed by the text.

Requester: uwes596convai

Reward: \$0.02 per task

Tasks available: 0

Duration: 1 Hours

Qualifications Required: None



Viewing Answers Submitted by Workers

This message is only visible to you and will not be shown to workers.

You can test crowdsourcing the task below and click "Submit" in order to preview the data and tasks of the submitted results.

Instructions

[View full instructions](#)[View task details](#)[SHORT INSTRUCTIONS \(TELEGRAM\)](#)

Intent Detection Instructions

Select the most relevant intention expressed by the text.

**Example:** I would like to return a pair of shoes**Intent:** Return

Close

&lt;full-instructions&gt; ...

Finish

# Steps

- Create a HIT
  - design the interface for annotation
  - configure the job properties
- Publish a batch
  - upload data for annotation
- Monitor and review results

New Batch with an Existing Project

https://requestersandbox.mturk.com/create/projects

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Mechanical Turk Developer Sandbox  
This site is for test and development only. Learn more ↗

uwee506convia | My Account | Sign Out | Help

amazon mturk

Create Manage Developer

New Project New Batch with an Existing Project

Your Project was successfully deleted.

Start a New Batch with an Existing Project

Project Name	Title	Created	Last Edited	
Intent Detection	Select the most relevant intention expressed by the text	April 30, 2019	April 30, 2019	<b>Publish Batch</b> <span style="border: 1px solid red; padding: 2px;">Edit Copy Delete</span>

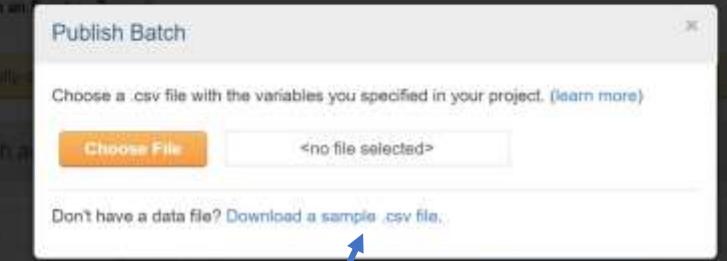
**Publish a batch to workers**

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	A	B	C
1	text		
2	Hit1_text_data		
3	Hit2_text_data		
4	Hit3_text_data		
5			
6			
7			
8			
9			
10			



For the toy HIT, using the  
downloaded csv file

Create | Requester | Amazon Mechanical Turk

https://requestersandbox.mturk.com/create/projects/83985/batches/236231/preview?number=1

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Preview Tasks

This is how your task will look to Workers. Make sure that any variables in the task are correctly replaced by your input data, then click "Next".

Intent Detection

Select the most relevant intention expressed by the text.

Requester: UWU296convai

Reward: \$0.02 per task

Tasks available: 3

Duration: 1 Hours

Qualifications Required: None

Instructions

[View full instructions](#)

[View tool guide](#)

SHORT INSTRUCTIONS TBD

Pick the most relevant intention expressed by the below text

Hit1\_text\_data

Submit

Showing Task 1 of 3

Next HIT

Cancel Next

Show all

input.csv

Preview Confirm and Publish

Create | Requester | Amazon Mechanical Turk

https://requestersandbox.mturk.com/create/projects/83985/batches/236231/checkout

UW Libraries Proxy... SVG Crowbar

Preview Confirm and Publish

### Confirm and Publish Batch

Please review the information about the Batch, then click "Publish".

#### Intent Detection

**Batch Summary**

Batch Name: Intent Detection 1 Description: Select the most relevant intention

**Batch Properties**

Title: Select the most relevant Intention expressed by the text  
Description: Select the most relevant intention expressed by the text  
Batch expires in: 7 Days  
Results are auto-approved and Workers are paid after: 3 Days

**Tasks**

Number of tasks in this batch: 3  
Number of assignments per task: 3  
Total number of assignments in this batch: 9

**Cost Summary**

Reward per Assignment:	\$0.02
Estimated Total Reward:	\$0.18
Estimated Fees to Mechanical Turk:	+\$0.09 (View details)
Estimated Cost:	\$0.27
Applied Prepaid HITs Balance:	-\$0.27
Remaining Balance Due:	\$0.00

In the sandbox, your Current Balance is always \$10,000.00.

Back Publish

Help Phishing Contact Us Policies State Licensing Contact Sales Ring Service Health Dashboard Careers MTurk.com Workers Follow Us on Twitter

An Amazon company

Results | Manage | Requester | A X +

← → C https://requestersandbox.mturk.com/batches/236231

UW Libraries Proxy... SVG Crowbar

Results Workers Qualification Types

Manage Batches > Batch Details

### Intent Detection 1

View the latest status of this batch, make changes, or get results.

Select the most relevant intention expressed by the text

Status

Status: In Progress

0% submitted 100% published

Assignments Completed: 0 / 9

Creation Time: April 30, 2019 5:35 PM PDT

Average Time per Assignment: Not yet available

Estimated Completion Time: Not yet available

Settings

### Intent Detection

[View Project](#)  
Note: If you have edited the Project after publishing the Batch, you will see the latest version.

Description: Select the most relevant intention expressed by the text

Keywords: text, classification, intent

Qualification Requirement(s):

Number of Assignments per task: 3

Reward per Assignment: \$0.02

Input File: input.csv

Batch expires on: Not yet available

Assignment duration: 1 hour

Auto Approval Delay: 3 days

Results

Assignments pending review: 0

Assignments approved: 0

Assignments rejected: 0

Cost Summary

Estimated Total Reward: \$0.18

Estimated Fees to Mechanical Turk: \$0.09 (fee details)

Estimated Total Cost: \$0.27

These costs are only an estimate until all of the assignments have been submitted and reviewed.

# Progress of the data collection

Example task from this Batch

Pick the most relevant intention expressed by the below text

Results | Manage | Requester | A X Amazon Mechanical Turk X +

← → C https://workersandbox.mturk.com/projects/?end\_signin=1&openid.page.max\_auth\_age=43200&openid.identity=https%3A%2F%2Fwww.amazon.com%2Fap%2Fid%2Fa... ☆ Incognito ⌂ :

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Worker ID: A45A98MU302QT

Hello, uwee596convai | Sign Out

amazonmturk Worker HITS Dashboard Qualifications uwee596convai

All HITs Your HITs Queue

HIT GROUPS (1-20 of 20)

Show Details Hide Details Items Per Page: 20

	HITS	Reward	Created	Actions		
<a href="#">Requester: vse-mturk</a>	1,357	\$0.03	1m ago	<a href="#">Preview</a>	<a href="#">Qualify</a>	
<a href="#">Receipt Transcription</a> Algorithm tagged videos - TimelineUI May-01-2019	5	\$0.00	2m ago	<a href="#">Preview</a>	<a href="#">Qualify</a>	
<a href="#">Robert Atwood</a>	Hummingbird Watch - Early Forest Fire Detection	2	\$0.07	2m ago	<a href="#">Preview</a>	<a href="#">Accept &amp; Work</a>
<a href="#">uwee596convai</a>	Select the most relevant intention expressed by the text	3	\$0.02	4m ago	<a href="#">Preview</a>	<a href="#">Accept &amp; Work</a>
<a href="#">Ethan Perez</a>	Guess the answer!	29	\$1.50	6m ago	<a href="#">Preview</a>	<a href="#">Accept &amp; Work</a>
<a href="#">vse-mturk</a>	Customer Low Priority feedback request videos - COPSUI May-01-2019	2	\$0.00	11m ago	<a href="#">Preview</a>	<a href="#">Qualify</a>
<a href="#">Ethan Perez</a>	Guess the answer!	28	\$1.12	11m ago	<a href="#">Preview</a>	<a href="#">Accept &amp; Work</a>
<a href="#">vse-mturk-gamma</a>	vsegamma testing Nudity May-01-2019	6	\$0.00	12m ago	<a href="#">Preview</a>	<a href="#">Qualify</a>
<a href="#">vse-mturk-gamma</a>	vsegamma testing External URL May-01-2019	1	\$0.00	16m ago	<a href="#">Preview</a>	<a href="#">Qualify</a>
<a href="#">Ethan Perez</a>	Guess the answer!	25	\$1.12	25m ago	<a href="#">Preview</a>	<a href="#">Accept &amp; Work</a>
<a href="#">vse-mturk</a>	Customer High Priority feedback request videos - COPSUI May-01-2019	2	\$0.00	31m ago	<a href="#">Preview</a>	<a href="#">Qualify</a>
<a href="#">Mirai</a>	Identify images that contain markings (measurements, logo, text, etc.)	20	\$0.03	38m ago	<a href="#">Preview</a>	<a href="#">Accept &amp; Work</a>
<a href="#">Mirai</a>	Identify sketches, or images of packaging or images with borders	21	\$0.03	39m ago	<a href="#">Preview</a>	<a href="#">Accept &amp; Work</a>

- go to the Worker sandbox  
<https://workersandbox.mturk.com>
- search for your job name or your account name

Results | Manage | Requester | A X Amazon Mechanical Turk X +

← → C https://workersandbox.mturk.com/projects/?filters%5Bsearch\_term%5D=uwee596convai&page\_size=20&page\_number=1&sort=updated\_desc&filters%5Bmin\_reward%5D=0

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Hello, uwee596convai | Sign Out

Worker ID: A45A98MU302QT

amazonmturk Worker HITs Dashboard Qualifications uwee596convai

Search Filter

All HITs Your HITs Queue

1-1 of 1 results containing 'uwee596convai'

## HIT Groups

Show Details Hide Details Items Per Page: 20

Requester	Title	HITS	Reward	Created	Actions
uwee596convai	Select the most relevant intention expressed by the text	3	\$0.02	4m ago	<a href="#">Preview</a> <a href="#">Accept &amp; Work</a>

1 Previous Next

Start to work on the HIT by yourself

Results | Manage | Requester | A X a Amazon Mechanical Turk X +

← → C https://workersandbox.mturk.com/projects?filters%5Bmin\_reward%5D=0&filters%5Bsearch\_term%5D=uwee596convai&page\_number=1&page\_size=20&sort=updated\_... ☆ Incognito ⌂ :

UW Libraries Proxy... SVG Crowbar

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Worker ID: A45A98MU302QT

Hello, uwee596convai | Sign Out

amazonmturk Worker HITs Dashboard Qualifications uwee596convai

All HITs Your HITs Queue

 There are no more of these HITs available

Browse all available HITs.

1-1 of 1 results containing "uwee596convai".

HIT Groups

Requester	Title	HITS	Reward	Created	Actions
uwee596convai	Select the most relevant intention expressed by the text	3	\$0.02	5m ago	Preview Accept & Work

← Previous 1 Next →

The worker cannot annotate the same datapoint more than once.  
So after the worker finishes all 3 assignments, he/she cannot work on this batch any more.

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Results | Manage | Requester | A X a Amazon Mechanical Turk X +

← → C https://requestersandbox.mturk.com/batches/236231

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Mechanical Turk Developer Sandbox  
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uwee596convai | My Account | Sign Out | Help

amazon mturk requester Create Manage Developer

Results Workers Qualification Types

Manage Batches > Batch Details

**Intent Detection 1**

View the latest status of this batch, make changes, or get results.

Select the most relevant intention expressed by the text

Status

Status: In Progress 33% submitted 100% published

Assignments Completed: 3 / 9 Creation Time: April 30, 2019 5:35 PM PDT Average Time per Assignment: 9 seconds Estimated Completion Time: April 30, 2019 5:54 PM PDT (TODAY)

Settings

**Intent Detection**

**View Project**  
Note: If you have edited the Project after publishing the Batch, you will see the latest version.

Description: Select the most relevant intention expressed by the text

Keywords: text, classification, intent

Qualification Requirement(s):

Number of Assignments per task: 3 Reward per Assignment: \$0.02 Input File: input.csv

Batch expires on: May 07, 2019 5:35 PM PDT (Tuesday) Extend this batch

Assignment duration: 1 hour Auto Approval Delay: 3 days

**Check annotations here**

**Progress of the data collection**

Cancel

Results

Assignments pending review: 3 Assignments approved: 0 Assignments rejected: 0

Cost Summary

Estimated Total Reward: \$0.18 Estimated Fees to Mechanical Turk: \$0.09 (fee details) Estimated Total Cost: \$0.27

These costs are only an estimate until all of the assignments have been submitted and reviewed.

Results | Manage | Requester | A X Amazon Mechanical Turk

https://requestersandbox.mturk.com/batches/236231/results

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uwee596convai | My Account | Sign Out | Help

amazon mturk requester Create Manage Developer

Results Workers Qualification Types

Manage Batches > Review Results

**Review Results**

Select the check boxes on the left to approve or reject results. You only pay for approved results. To evaluate results offline, select Download CSV.

For additional batch information, view batch details.

**Intent Detection 1**

Customize View Filter Results

3 of 3 assignments (FILTER APPLIED: only show assignments that are in 'Submitted' status)

	HIT ID	Worker ID	Lifetime Approval Rate	Input Text	Intent Label
338431Z1FMHH7V29YJS15DBTBTOR1	A45A98MU302QT	0% (0/0)	Hit2_text_data	Order	
36FFXPMSTAQ411082ETOR99NMLVHOX	A45A98MU302QT	0% (0/0)	Hit3_text_data	Return	
3KTCJ4SCVH35ENIGN9BQ7I4BAWKM1O	A45A98MU302QT	0% (0/0)	Hit1_text_data	Cancel	

Approve Reject

3 of 3 assignments (FILTER APPLIED: only show assignments that are in 'Submitted' status)

**Download the annotation results**

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# Cohen's Kappa Coefficient

(Cohen, 1960)

- Test-Retest or Inter-rater reliability for categorical (typically dichotomous) data.
- Accounts for chance agreement

Observed		Rater 2		
		Present	Absent	Total
Rater 1	Present	20	15	35
	Absent	10	55	65
	Total	30	70	100

# Kappa Coefficient

Can you explain how to compute the expected table from the observed one?

Observed		Rater 2		
		Present	Absent	Total
Rater 1	Present	20	15	35
	Absent	10	55	65
	Total	30	70	100

Expected		Rater 2		
		Present	Absent	Total
Rater 1	Present	10.5	24.5	35
	Absent	19.5	45.5	65
	Total	30	70	100

$$\kappa = \frac{P_o - P_e}{1.0 - P_e}$$

$P_o$  = observed proportion of agreements

$P_e$  = expected proportion of agreements

$$\kappa = \frac{[(20+55)/100] - [(10.5+45.5)/100]}{1 - [(10.5+45.5)/100]} = 0.43$$

# Kappa Interpretation

- Interpretation:

Kappa Value	Interpretation
Below 0.00	Poor
0.00-0.20	Slight
0.21-0.40	Fair
0.41-0.60	Moderate
0.61-0.80	Substantial
0.81-1.00	Almost perfect

(source: Landis, J. R. and Koch, G. G. 1977. *Biometrics* 33: 159-174)

- kappa could be high simply because marginal proportions are either very high or very low!!
- Best interpretation of kappa is to compare its values on other, similar scales