

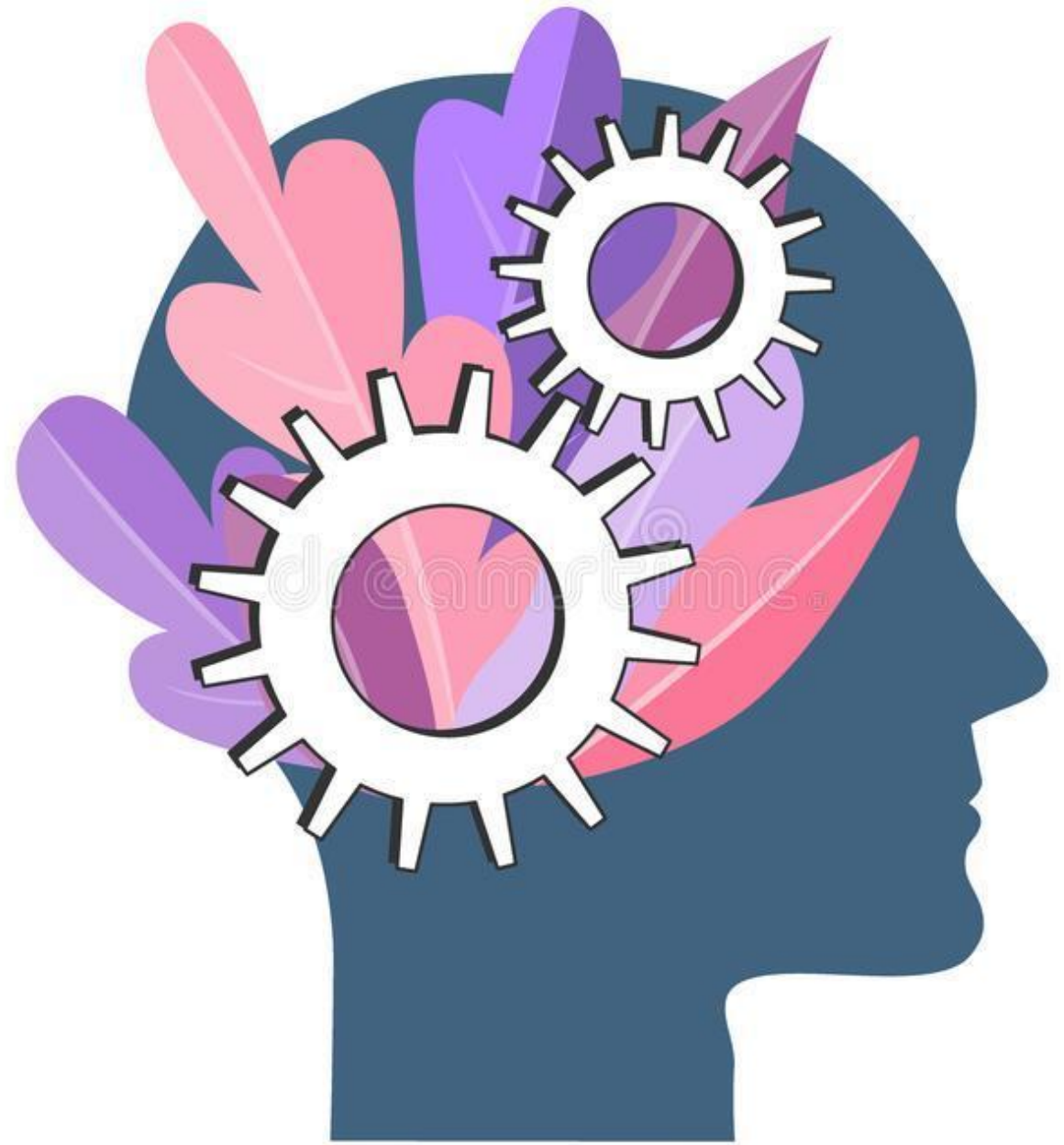
# Work Culture Project

Week 5

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**Presenter:**

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# Overview

- Created a list of task to be performed as a Toloker
- Performed tasks as a Toloker and manually tracked the times of different events that I have performed
- Documented each task and created a small dataset to validate the methods
- Applied the methods on the small dataset, and validated them



# Snippet of the Mini Log Data

	id	uid	event	timestamp	url	tab_id	scroll_count	blur_count	focus_count
0	191654	1685129673	TABUPDATED	1676579992909	https://toloka.yandex.com/signup	556	0.0	0.0	0.0
1	191655	1685129673	TABUPDATED	1676579994735	https://toloka.yandex.com/	556	0.0	0.0	0.0
2	191656	1685129673	WEBREQUEST	1676579994914	https://toloka.yandex.com/	556	NaN	NaN	NaN
3	191657	1685129673	TABUPDATED	1676579995999	https://toloka.yandex.com/tasks	556	0.0	2.0	2.0
4	191658	1685129673	WEBREQUEST	1676579996060	https://toloka.yandex.com/tasks	556	NaN	NaN	NaN
...	...	...	...	...	...	...	...	...	...
155	192180	1685129673	TABACTIVATED	1676585897582	https://toloka.yandex.com/task/37226291/000238...	590	0.0	1.0	1.0
156	192181	1685129673	TABACTIVATED	1676585899191	https://docs.google.com/document/d/1vouWd54ln-...	530	NaN	NaN	NaN
157	192186	1685129673	TABACTIVATED	1676585925769	https://toloka.yandex.com/task/37226291/000238...	590	0.0	0.0	1.0
158	192187	1685129673	TABCLOSED	1676585929544	https://toloka.yandex.com/task/37226291/000238...	590	NaN	NaN	NaN
159	192188	1685129673	TABACTIVATED	1676585929556	https://northeastern-csm.symplicity.com/studen...	560	NaN	NaN	NaN

# Tasks Performed

Below are several lists of events that I performed as a worker on the Toloka Platform:

- Browsing Toloka Task Tab for several minutes for separate intervals of time
- Browsing the Tasks while interacting with them once or multiple times
- Performing a Task to earn money (single attempt)
- Attempting a task in multiple attempts
- Performing learning tests, trainings, to have access to qualified tasks
- Performing a task while switching tabs and simultaneously visiting NON-TOLOKA websites
- Performing Multitasking (performing a task while simultaneously browsing through the Task Tab)

# Manual Records

Below are several manual records that I have tracked of the activities performed by the user\_id : 1685129673 on the Toloka Platform:

## Activities [Task tab Navigation]:

1. Task navigation started - **15:40** | Task navigation ended - **15:47** = **7 mins**
2. Task navigation started - **15:54** | Task navigation ended - **16:00** = **6 mins**
3. Task navigation started - **16:02** | Task navigation ended - **16:10** = **8 mins**
4. Task navigation started - **16:18** | Task navigation ended - **16:41** = **23 mins**
5. Task navigation started - **16:47** | Task navigation ended - **16:50** = **3 mins**
6. Task navigation started - **17:05** | Task navigation ended - **17:06** = **1 min**

# Manual Records

**Time Logs of staying on each task: (start time-end time)/ (O/M/F)**

**[O - interacted once, M - interacted multiple times, F - finished]**

1. 3D segmentation for newbies [36703863]: (15:47 - 15:54 ) (O) = 7 mins
2. Are all the objects humans [37062507]: (16:00 - 16:09 ) (O) = 9 mins
3. Is it really the same object in the photo [37225409]: (16:10 - 16:18 ) (F) = 8 mins
4. English Grammar Test [37314992] : (M) = 14 mins
  - a. (16:41 - 16:46) = 5 mins
  - b. (16:54 - 17:05 ) = 9 mins
5. Classification of Road Signs [37226291]: (17:06 - 17:18 ) (O) = 12 mins

**Interacted Once:**

1. 3D segmentation for newbies [36703863] = 7 mins
2. Are all the objects humans or [37062507] = 9 mins
3. Is it really the same object in the photo [37225409] (Finished) = 8 mins
4. Classification of Road Signs [37226291] = 12 mins



# Validating the Methods

**Function Name:** `task_duration(pool_id)`

**CASE 1:** Task was attempted just once

```
[ ] task_duration('36703863')
```

The time took for the given task to get completed is: **6.441666666666666 minutes.**

Original duration is 7 mins.

```
[ ] task_duration('37062507')
```

The time took for the given task to get completed is: **8.984466666666666 minutes.**

Original duration is 9 minutes.

# Validating the Methods

**Function Name:** `task_duration(pool_id)`

**CASE 1:** Task was attempted just once

```
[ ] task_duration('37226291')
```

The time took for the given task to get completed is: **12.7058 minutes.**

Original duration is 12 minutes.

We can clearly conclude that this method works fine for Case 1. The slight difference in the original duration and the duration that is calculated by our method, could be because of the fact that manual recordings can not be accurate in seconds. And due to less accuracy of manual recordings, we can say that our method has the best accuracy.



# Validating the Methods

**Function Name:** `task_duration(pool_id)`

**CASE 2:** Task was attempted and finished

```
[ ] task_duration('37225409')
```

The time took for the given task to get completed is: **2.2997 minutes.**

Original duration is 8 mins.

Our method does not produce very accurate results for methods that are completed. However, since this has only been tested to one task till now, the anomaly in the results could also be there for some other reasons. The next step could be trying out this method on multiple tasks from Case 2.

# Validating the Methods

**Function Name:** `task_duration(pool_id)`

**CASE 3:** Task was attempted in multiple attempts

```
[ ] task_duration('37314992')
```

The time took for the given task to get completed is: **23.507483333333333 minutes.**

Original time took is 14 minutes.

The duration calculated by our method is significantly larger than the actual duration, hence it indicates that the function is probably not excluding the time for which the worker isn't working on the task after initiating it.

# Validating the Methods

## Function Name:

```
task_tab_navigation(user_id)
```

This function returns the average duration of time a worker has spent while navigating the tasks in the Toloka Task tab.

```
[ ] task_tab_navigation(1685129673)
```

```
4.708333333333334
```

Original Average time: 8 minutes

# Conclusion

1. The method to calculate task duration works well and provides with the most accurate results for Case 1 where the worker has attempted the task once.
2. The method doesn't work that well for Case 2 and Case 3 and Task Tab navigation duration.
3. While the outcomes are not absolutely off from the original values, they could still be more accurate.

# Appendix

## Python Scripts:

<https://colab.research.google.com/drive/1YfOclKYLtXxW2mifYwOf5ypUFTKOeld9?usp=sharing>

## Toloka Mini Data Activity Tracker:

<https://docs.google.com/document/d/1vouWd54ln-vl2mkF7VR6yjlR3VPxEFnH1Gf8877-lHg/edit?usp=sharing>

**Thank You!**

