

## Homework #5. Behaviour exploration improvement

### Task #1. Improve your results

#### Task

You have already analyzed telegram behavioural patterns (h/w #4).

Some of you made remarkable findings and created valuable drawings, but some works were superficial (no really valuable results, high-level review rather than fundamental analyzes). For the first group (who did an outstanding assignment), this h/w is a chance to dig deeper into their findings, improve existing and make new ones. For the group of students with h/w #4 without significant results, it's a chance to extend your research and make valuable improvements.

If you don't know what else you can add to your research, here are some ideas for you:

- Sentiment analysis (you can use Ukrainian tone dictionaries - <https://github.com/SanGreel/tone-dict-ukrainian>).
- TF-IDF analyses - you can find topics for the documents (for example, one document can be your dialogue with one person in one day)
- Find your activity patterns in the TG (you can utilize time clustering, which we discussed during lectures). How much time do you spend there? When do you start, and when do you finish your TG day?
- Recognize the interlocutors' genders. What is the difference in the communication patterns?
- Recognize languages and analyzes their usage.

### Final Deadline

22/11/2024, 23:59 (max: 10pt)

#### Expected Outcome

1. PDF report (file named "5\_<your\_id>.pdf") exported from the file `3\_eda\_v2.ipynb` with the well-structured report.