

Assignment 1

Text categorization: argument mining

1. Introduction

- Please read the document very carefully. If you have questions ask in the telegram group.
- Use this template to complete your assignment report and upload it to Canvas: <https://colab.research.google.com/drive/1lyvayaR7KS9JyofdQ14b8J3kwJ8QCLrj?usp=sharing>
- Submit your results to Codalab (post evaluation phrase): <https://codalab.lisn.upsaclay.fr/competitions/786>
 - Important: As the name of the team in Codalab indicate 'NNLP'.
 - Important: In the jupyter notebook indicate name of your Codalab user.

2. Task Description

In the context of this assignment, you will solve argument mining task as defined at the RuArg-22 competition at the Dialogue Conference. All details about the rules can be found at: <https://www.dialog-21.ru/evaluation/2022/ruarg/>. The shared task is a classification task (text categorization task to be precise). You are asked to solve, in fact, two text categorization task – stance detection and argument classification. The first one is about identification of the presence of a position of a person in a text with respect to the given topic. The second one is about presence or absence about argument in the text.

In this assignment, you are expected just to follow all the rules of the competition and prepare a fully-fledged submission to both tasks. A valid submission must appear in the 'Post-evaluation' tab on Codalab as show in the figure below:



Argument Mining Competition (RuArg-2022)

Organized by lilaspourpre - Current server time: March 31, 2022, 9:50 a.m. UTC

Previous

Final test

Feb. 4, 2022, midnight UTC

► Current

Post-evaluation

Feb. 21, 2022, midnight UTC

End

Competition Ends

Never

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[Phases](#)

[Participate](#)

[Results](#)

Development

Final test

Post-evaluation

Phase description

!!! Attention !!! You should submit a zip archive which contains a *.tsv file.

Max submissions per day: 999

Max submissions total: 999

Download CSV

Results						
#	User	Entries	Date of Last Entry	Team Name	F1 Stance Detection ▲	F1 Premise Classification ▲
1	camalibi	10	01/29/22		0.7130 (1)	0.6847 (1)
2	orzhan	23	01/20/22		0.7012 (2)	0.6423 (4)
3	unknown123	20	02/19/22		0.6723 (3)	0.6663 (2)
4	sevastyanm	5	02/19/22		0.6660 (4)	0.6526 (3)
5	iamdenay	8	02/02/22		0.6577 (5)	0.6251 (5)
6	ursdth	4	02/07/22		0.6387 (6)	0.6027 (6)
7	nuged	19	02/01/22		0.6004 (7)	0.5670 (7)
8	sopilnyak	3	02/16/22		0.5956 (8)	0.5126 (9)
9	kazzand	2	02/11/22		0.5196 (9)	0.4829 (11)
10	invincible	44	02/19/22		0.5097 (10)	0.5297 (8)
11	ilya_k1LL3r	16	03/15/22		0.4968 (11)	0.4939 (10)
12	gschernikova	2	03/22/22		0.4395 (12)	0.4063 (14)
13	regibezh	9	02/20/22		0.4127 (13)	0.4523 (12)
14	lilaspourpre	34	12/27/21	baseline	0.3924 (14)	0.4517 (13)
15	antongolubev	4	01/22/22		0.3241 (15)	0.2963 (15)
16	georgeMK	4	02/17/22		0.0566 (16)	0.0360 (16)

You are allowed to do – until the deadline (as indicated by the ‘Date of Last Entry’ column) – as many submissions as possible. The last submission will be taken into account. Note that, valid submissions will be using ‘Team Name = NNLP’ column.

In terms of the methods, you are allowed to use any methods or models. In your report you must describe which method you used for submission and how did you tuned its meta-parameters.

3. Evaluation criteria

Technical report (10)		Code quality (10)		Results (5)		Total	Penalty for late submission
Methodology	Discussion of results	Readability	Reproducibility	Improved over the baseline	top-20% - 5 points, top-1 - 10 points	100% + bonus	
5	5	5	5	5	5 or 10	25 + (5 or 10 bonus)	1 day = 1 point

* To get 100% for this task you need to achieve 25 points, but you can get additional 5 points if your method is in the top 20% (among all enrolled students) in the Codalab leaderboard and additional 10 points if your method is the top-1 in the Codalab leaderboard. These credits will be counted proportionally towards the final grade in the course (100% of assignment scores worth 30% of the course points).

You are expected to provide:

1. **Technical report (10 points total).** Write a report in the provided Ipyrn template (see above) describing the method used in your solution. The report must have two parts:
 - a. **Methodology (5 points):** the main of your report with description of all methods that you tried and, most importantly, that worked the best for you. Here you can include some tricks of your preprocessing, description of the models and motivation of their usage, the description of the training process details (train-test split, cross-validation, etc.). So, everything valuable that will help us to understand the scope of your work and reproduce your pipeline.
 - b. **Discussion of results (5 points):** here we want to see the final table with comparison of the baseline and all tried approaches you decided to report. Even if some method did not bring you to the top of the leaderboard, you should nevertheless indicate this result and a discussion, why, in your opinion, some approach worked and another failed. Interesting findings in the discussion will be a plus.
2. **Code (10 points total).** Develop yourself a solution of the task and provide a reproducible code in the provided template. Make sure that your code:
 - a. Is using Python 3;
 - b. Contains code for installation of all dependencies;

- c. Contains code for downloading of all the datasets used;
- d. Contains the code for reproducing your results (in other words, if a tester downloads your notebook she should be able to run cell-by-cell the code and obtain your experimental results).

As a result, your code will be graded according to these criteria:

- a. **Readability (5 points):** your code should be well-structured preferably with indicated parts of your approach (Preprocessing, Model training, Evaluation, etc.).
 - b. **Reproducibility (5 points):** your code should be reproduced without any mistakes with “Run all” mode (obtaining experimental part).
- **Results (5 points + extra 5-10 points):** Push the (best) solutions which you developed to the **CodaLab** platform so that they appear in the respective public leaderboard. The name of your user / submission should be present in the report for verification. You will get **5 points for outperforming the baseline**; then additional 5 points for being in top 20% or additional 10 points for being top1.