Clickbait Classifier dmolnar

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Introduction

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Clickbait Classifier

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API for predicting *clickbait scores* for particular social media posts (article) and re-training underlying ML models with newly labeled data.

POST Get clickbait score for particular post text.

http://localhost:5000/predict

This endpoint retrieves the so called *clickbait score* for a set of post texts. Based on this post texts, five pre-trained neural networks will predict the clickbait score of an article. The result of this prediction is a **float number between 0 and 1** which refers to the probability of click baiting.

Field	Description
id	Id of article.
postText	List of post texts contained by the article.

Headers

Content-Type	application/json

Body raw (application/json)

```
{
    "id": "541646546984163541",
    "postText": ["The referee was forced to stop the fight after Anthony Yigit suffered a nasty eye injury, but the boxer wasn't happy", "That looks painful..."]
}
```

POST Trigger classifier to re-train itself with newly labeled data.

http://localhost:5000/train

This endpoint accepts newly labeled data and **re-trains the underlying neural network structure.** Since this task is processed asynchronously, there is no downtime for the prediction endpoint. Request body consits of a list of objects containing following fields:

POSTINSTANCE

Field	Description
id	Id of article.
postTimestamp	Timestamp of creation of the target page.
postText	List of post texts contained by the article.
postMedia	List of media content in the article.
targetTitle	Title of the target article.
targetDescription	Description of the target page.
targetKeywords	List of keywords of the target page.
targetParagraphs	List of paragraphs in the article.
targetCaptions	List of media captions contained by the article.

STATS

Field	Description
id	Id of article.
truthJudgments	List of votes.

Headers

Content-Type	application/json

Body raw (application/json)

```
[
    {
        "postInstance":{
            "id":"123456789",
            "postTimestamp":"Thu Nov 17 21:15:21 +0000 2016",
            "postText":[
                "Federal prosecutors could seek death penalty, says US Attorney General Jeff Sessions",
                "Pittsburgh shooting: Suspect Robert Bowers faces 29 murder and hate crime charges"
            ],
            "postMedia":[

            ],
            "targetTitle":"Pittsburgh shooting: Suspect Robert Bowers faces 29 murder and hate crime charges",
            "targetDescription":"Federal prosecutors could seek death penalty, says US Attorney General Jeff Sessions",
            "targetKeywords":"Robert Bowers, Antisemitism, mass shooting, Pittsburgh, Donald Trump, Americas, World, News",
            "targetParagraphs":[
                "Robert Bowers, the man suspected of shooting 11 people dead at a synagogue in Pittsburgh, faces more than two dozen federal charges for murder, hate crimes and firearms offences.",
                "The 46-year-old surrendered to police following the mass shooting at the Tree of Life building in the Jewish neighbourhood of Squirrel Hill.",
                "US authorities made clear they believed the attack was motivated by religious hatred. Bowers is known to have held virulently antisemitic views.",
                "Federal prosecutors filed 29 charges in all against Bowers, including 11 counts of using a firearm to commit murder and multiple counts of two specific hates crimes.",
                "One is the obstruction of exercise of religious beliefs resulting in death. The other is obstruction of exercise of religious beliefs resulting in injury.",
                ""The crimes of violence are based upon the federal civil rights laws prohibiting hate crimes," US Attorney Scott Brady and Bob Jones, the FBI special agent in charge of the investigation, explained in a statement.",
                "Bowers reportedly walked into the synagogue on Saturday morning yelling: "All Jews must die.",
                "He also told police "I want to kill Jews" because they "were committing genocide to his people," according to a FBI affidavit."
```

Example Request   Get clickbait score for particular post text.

curl --request POST \
  --url http://localhost:5000/predict \
  --header 'Content-Type: application/json' \
  --data '{
      "id": "541646546984163541",
      "postText": ["The referee was forced to stop the fight after Anthony Yigit suffered a nasty eye injury, but the boxer wasn'\''t happy", "That looks painful..."]
}'

Example Response   200 OK

{"clickbaitScore": 0.40075128674507143, "id": "541646546984163541"}

Example Request   Trigger classifier to re-train itself with newly labeled data.

curl --request POST \
  --url http://localhost:5000/train \
  --header 'Content-Type: application/json' \
  --data '[
    {
      "postInstance":{
        "id":"123456789",
        "postTimestamp":"Thu Nov 17 21:15:21 +0000 2016",
        "postText":[

Example Response   200 OK

{
  "message": "Re-train started"
}

```
        },
        "targetCaptions":[

        ]
    },
    "stats":{
        "id":"123456789",
        "truthJudgments":[
            0.0,
            0.666667,
            0.0,
            1.0
        ]
    }
  }
]
```