

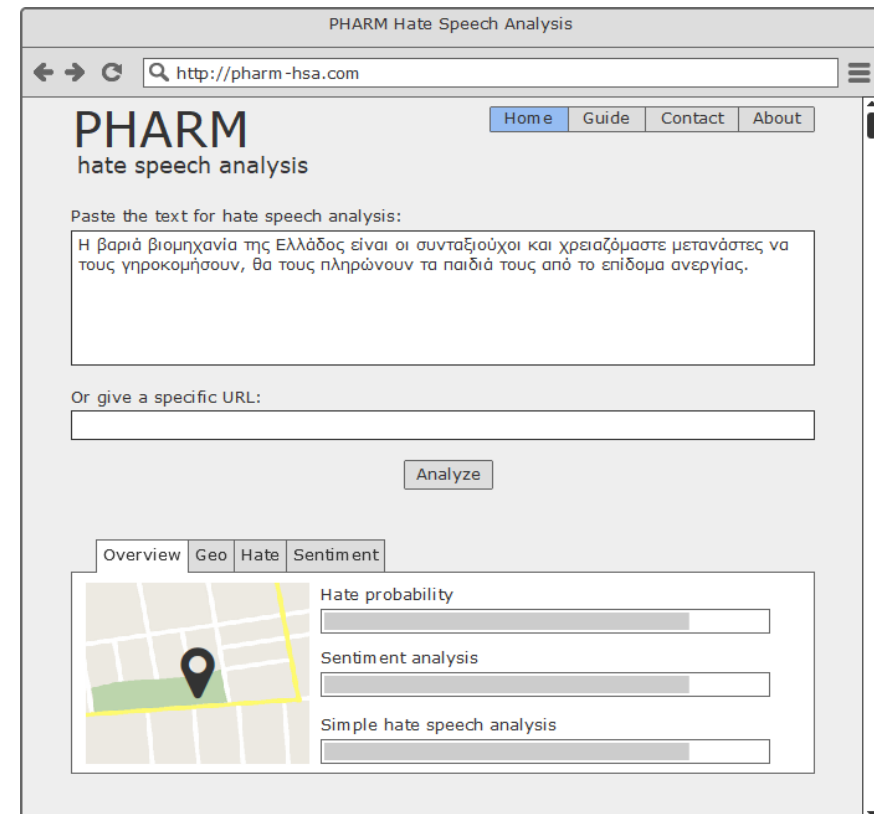
THE PHARM INTERFACE

Quick Start Guide

A web interface and computational methods for online hate speech detection

WHAT IS THE PHARM INTERFACE?

- It serves as the front-end of the PHARM software.
- It is a web interface for storing and querying multi-source news and social media contents.
 - It exposes data and functionality to the users.
 - It relies on the back-end NLP scripts.



WHAT FUNCTIONS DOES IT OFFER?

Monitor

The Interface offers real-time hate-speech event detection.

Search

The search function concerns database querying for filtering data.

Analyze

This involves hate-speech detection, sentiment analysis, and geolocation estimation.

Scrape

This allows for scraping text data from the Twitter and YouTube social platforms.

Annotate

This function enables the annotation of collected data.

Submit

The Interface supports adding new hate-speech records into the Repository.

TYPES OF USERS

Contributor

- Monitor
- Search
- Analyze
- Scrape
- Annotate
- Submit

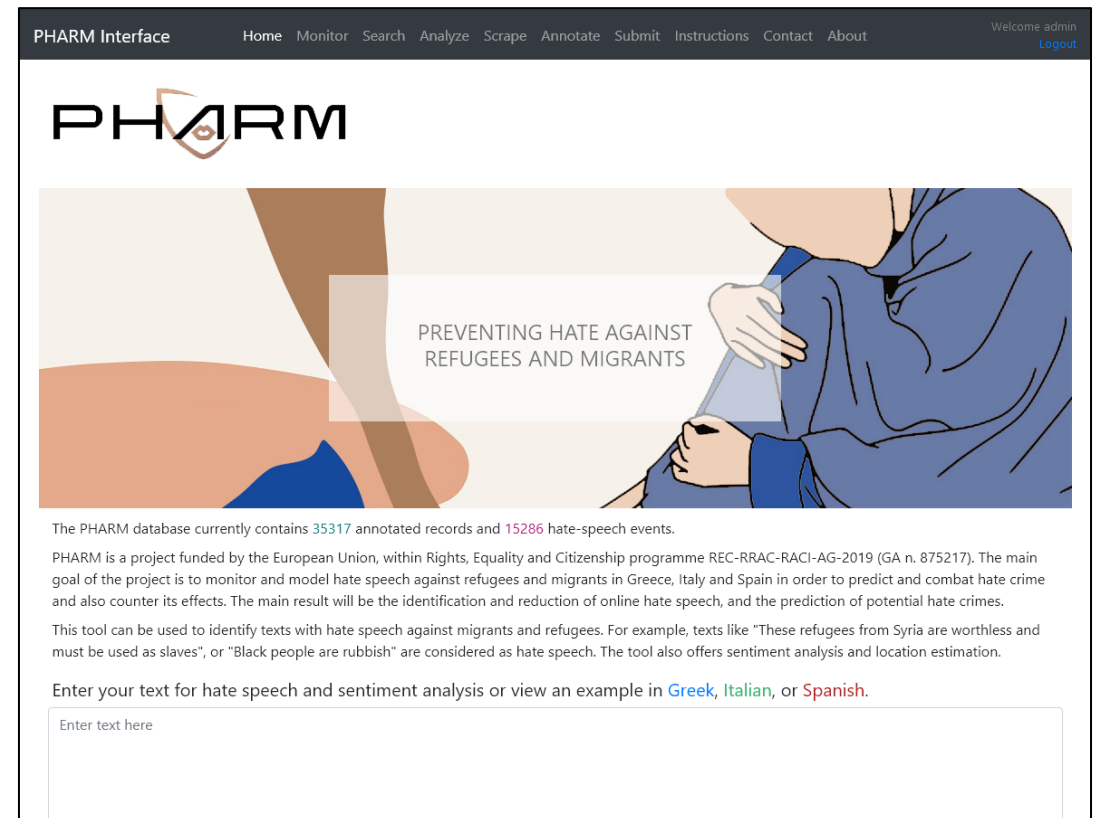
Visitor

- Monitor
- Search
- Analyze

- The Interface supports two types of users:
 - The visitor can access the analysis and search modules.
 - The contributor has full access to all available processing functions.
- The basic work-flows are:
 - Monitor -> Analyze
 - Search -> Analyze
 - Scrape -> Annotate -> Submit

INTERFACE | HOME

- The home screen provides some basic information about the project and the hate-speech repositories.
- It is accessible via the link pharm-interface.usal.es.
- It provides input for performing the supported analyses on a user-defined text.
- There are examples in Greek, Italian, and Spanish.
- These three languages are natively supported but content in all languages can be analyzed via translation.



PHARM Interface Home Monitor Search Analyze Scrape Annotate Submit Instructions Contact About Welcome admin Logout

PHARM

PREVENTING HATE AGAINST REFUGEES AND MIGRANTS

The PHARM database currently contains 35317 annotated records and 15286 hate-speech events.

PHARM is a project funded by the European Union, within Rights, Equality and Citizenship programme REC-RRAC-RACI-AG-2019 (GA n. 875217). The main goal of the project is to monitor and model hate speech against refugees and migrants in Greece, Italy and Spain in order to predict and combat hate crime and also counter its effects. The main result will be the identification and reduction of online hate speech, and the prediction of potential hate crimes.

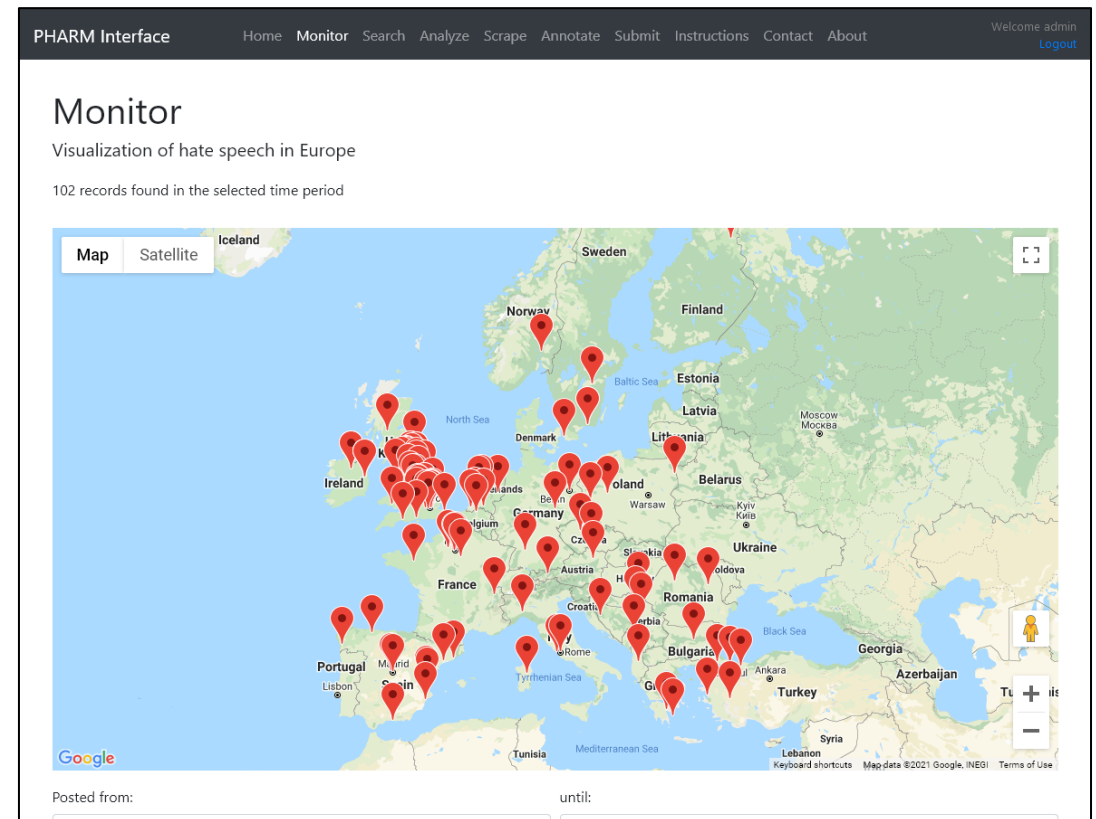
This tool can be used to identify texts with hate speech against migrants and refugees. For example, texts like "These refugees from Syria are worthless and must be used as slaves", or "Black people are rubbish" are considered as hate speech. The tool also offers sentiment analysis and location estimation.

Enter your text for hate speech and sentiment analysis or view an example in [Greek](#), [Italian](#), or [Spanish](#).

Enter text here

INTERFACE | MONITOR

- The Interface includes hate-speech monitoring capabilities.
- Geolocated tweets are being analyzed for containing hate-speech.
- This concerns the regional area of Europe.
- Found hate-speech events are stored and shown on a map.



INTERFACE | SEARCH

- One of the main functionalities of the interface is navigating through hate-speech records.
- The user can apply a variety of filters:
 - Source selection (Tweets, Facebook posts and comments, Website Articles and comments).
 - Language selection (English, Greek, Italian, Spanish).
 - Date and time selection (specify a specific period).
 - Keyword filtering (a search query for finding occurrences to texts).

PHARM Interface Home Monitor Search Analyze Scrape Annotate Submit Instructions Contact About Welcome admin Logout

Search

Search for hate speech content using multiple filters

Choose source:
 Twitter YouTube Facebook Post Facebook Comment Website Article Website Comment All

Choose language:
Greek

Marked as:
 Hate speech Not hate speech

Sentiment polarity:
 Positive Neutral Negative

Posted from: dd / mm / yyyy until: dd / mm / yyyy

Filter results with query:
Enter search query

I'm not a robot reCAPTCHA Privacy - Terms

Search

INTERFACE | SIMPLE RESULTS

- Search results are being presented as list of records.
- The user can preview and edit the results, and display details for each one record.
- Either the "Simple" or the "Scientific" view can be chosen.
- The list can be downloaded as a CSV or a JSON file.

PHARM Interface Home Monitor Search Analyze Scrape Annotate Submit Instructions Contact About Welcome admin Logout

Search

View the results of your query or go [back](#) for a new search

2809 results found with the selected filters

Showing items 1-200

1 2 3 4 5 6 7 8 9 ...

Simple View Scientific View

Download CSV (Simple View) Download JSON (Scientific View)

Πάντως ο φόβος κάνει καλά την δουλειά του. Όλοι φοράνε μάσκα, αυτό θα μας σώσει, τους λαθρομετανάστες που έχουν κατακλύσει την περιοχή κ για αυτό έχουν εκτιναχθεί τα κρούσματα δεν μπορούν να τους μαζέψουν. Στο φόβο σου ποντάρουν κ δυστυχώς κέρδισαν. Ετοιμαστείτε για τ χειρότερα [\[more\]](#) [\[delete\]](#)

#Ελλάς2021 #StandWithGreece #GreeceUnderAttack #Lesbos #Refugees #RefugeesGR #μεταναστευτικο #TurkeyIsATerrorState #BoycottTurkey #GreeceDefendsEurope #IStandWithGreece #Greece_under_attack #ΑΠΕΛΑΣΗ @neademokratia @PrimeministerGR [\[more\]](#) [\[delete\]](#)

ΣΥΝΕΧΙΖΟΥΝ ΑΚΑΘΕΚΤΟΙ ΤΟ ΜΠΟΛΙΑΣΜΑ! Μέσα σε λίγους μήνες «φύτψαν» 4.199 #λαθρομετανάστες μόνο στο 6ο διαμέρισμα του δήμου Αθηναίων, μέσω του προγράμματος #ΕΣΤΙΑ! Θέλουν να τελειώσουν την Ελλάδα! Μόνο η @ellinikilisi λέει ακατοίκητα νησιά & αμέση απέλαση όλων των παράνομων! @velopky <https://t.co/ahhg4Wr7wf> [\[more\]](#) [\[delete\]](#)

@Sofia9338779 @eUuVlclFoduQidT Το αστείο είναι ότι πολύ ελάχιστοι είναι οικονομολόγοι, αλλά όλοι βγάζουν τη χολή τους για να είναι πιστόλι στην κομματική γραμμή, νομίζοντας ότι η Γερμανία θα τους αφήσει αυτούς απείραχτους. Δεν ξέρουν ότι όλα τα σπίτια θα πάνε σε λαθρομετανάστες που θα γίνουν Έλληνες... [\[more\]](#) [\[delete\]](#)

ΣΥΝΕΧΙΖΕΙ ΑΚΑΘΕΚΤΟΣ @nmitarakis την ισλαμοποίηση Μέσα σε λίγους μήνες «φύτψαν» 4.199 #λαθρομετανάστες μόνο στο 6ο διαμέρισμα του δήμου Αθηναίων, μέσω του προγράμματος #ΕΣΤΙΑ! Θέλουν να τελειώσουν την Ελλάδα! @AdonisGeorgiadi @bogdanosk @AnnaAsimakopoul <https://t.co/61hglhYnun> [\[more\]](#) [\[delete\]](#)

@nmitarakis ΣΥΝΕΧΙΖΟΥΝ ΑΚΑΘΕΚΤΟΙ ΤΟ ΜΠΟΛΙΑΣΜΑ! Μέσα σε λίγους μήνες «φύτψαν» 4.199 #λαθρομετανάστες μόνο στο 6ο διαμέρισμα του δήμου Αθηναίων, μέσω του προγράμματος #ΕΣΤΙΑ! Θέλουν να τελειώσουν την Ελλάδα! <https://t.co/61hglhYnun> [\[more\]](#) [\[delete\]](#)

@bogdanosk ΣΥΝΕΧΙΖΟΥΝ ΑΚΑΘΕΚΤΟΙ ΤΟ ΜΠΟΛΙΑΣΜΑ! Μέσα σε λίγους μήνες «φύτψαν» 4.199 #λαθρομετανάστες μόνο στο 6ο διαμέρισμα του δήμου Αθηναίων, μέσω του προγράμματος #ΕΣΤΙΑ! Θέλουν να τελειώσουν την Ελλάδα! <https://t.co/61hglhYnun> [\[more\]](#) [\[delete\]](#)

INTERFACE | EXTENDED RESULTS

Twitter	YouTube
tweet id	comment id
is retweet	reply count
is quote	like count
user id	video id
username	video title
screenname	channel
location	video description
follower count	author id
friend count	author name

PHARM Interface [Home](#) [Monitor](#) [Search](#) [Analyze](#) [Scrape](#) [Annotate](#) [Submit](#) [Instructions](#) [Contact](#) [About](#) Welcome admin
[Logout](#)

Search

View the results of your query or go [back](#) for a new search

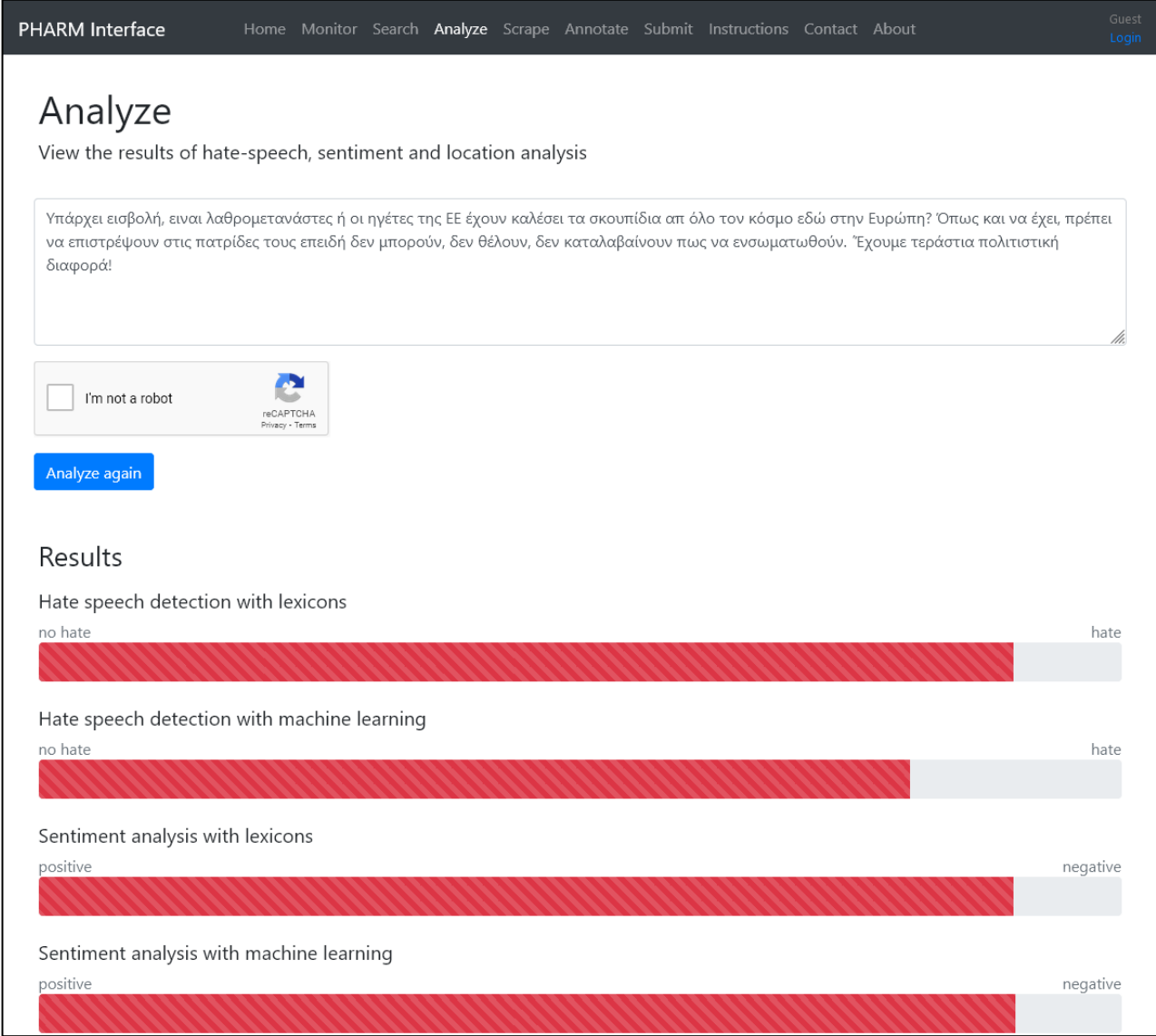
2809 results found with the selected filters

Showing items 1-200 Simple View Scientific View [Download CSV \(Simple View\)](#) [Download JSON \(Scientific View\)](#)

```
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\u038c\u039c\u03b5\u03c3\u03c1\u03b1 \u03c3\u03b5 \u03bb\u03b9\u03b3\u03bf\u03c5 \u03bc\u03b9\u03bd\u03b5\u03c3 \u03c1\u03c5\u03c4\u03b5\u03c8\u03b5\u03bd \u0384.199 \u0391\u03bb\u03b1\u03b8\u03c1\u03bf\u03bc\u03b5\u03c4\u03b1\u03bd\u03ac\u03c3\u03c4\u03b5\u03c3 \u03bc\u03bf\u03bd\u03bf \u03c3\u03c4\u03bf \u03b4\u03bf \u03b4\u03b9\u03b1\u03bc\u03b5\u03c1\u03b9\u03c3\u03bc\u03b1 \u03c4\u03bf \u03b4\u03b7\u03bc\u03bf \u0391\u03b8\u03b7\u03bd\u03b1\u03b9\u03bd\u03bf\u03bd, \u03bc\u03b5\u03c1\u03c9 \u03c4\u03bf\u03c5 \u03c0\u03c1\u03bf\u03b3\u03c1\u03ac\u03bc\u03b1\u03c4\u03bf\u03c3 \u038c\u038c\u038c\u038c\u038c\u038c\u038c \u03bd\u03b1 \u03c4\u03b5\u03bb\u03b5\u03b9\u03c9\u03c3\u03bf\u03bd \u03c4\u03b7\u03bd \u038c\u039b\u039b\u0391\u03a3\u0397 @ellinikilisli \u03bb\u03b5\u03b9 \u03b1\u03ba\u03c4\u03bf\u03ba\u03b9\u03ba \u03bd\u03b7\u03c3\u03b9\u03b1 \u0384 \u03b1\u03bc\u03b5\u03c3\u03b1 \u03b1\u03c0\u03b5\u03bb\u03b1\u03c3\u03b7 \u03cc\u03bb\u03c9\u03bd \u03c4\u03c9\u03bd \u03c0\u03b1\u03c1\u03b1\u03bd\u03bf\u03bc\u03c9\u03bd! 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```

INTERFACE | ANALYZE

When a record is selected (or for a text that is placed in the home screen), a view presenting detailed information appears.




PHARM Interface Home Monitor Search Analyze Scrape Annotate Submit Instructions Contact About Guest Login

Analyze

View the results of hate-speech, sentiment and location analysis

Υπάρχει εισβολή, είναι λαθρομετανάστες ή οι ηγέτες της ΕΕ έχουν καλέσει τα σκουπίδια απ' όλο τον κόσμο εδώ στην Ευρώπη? Όπως και να έχει, πρέπει να επιστρέψουν στις πατρίδες τους επειδή δεν μπορούν, δεν θέλουν, δεν καταλαβαίνουν πως να ενσωματωθούν. Έχουμε τεράστια πολιτιστική διαφορά!

I'm not a robot  reCAPTCHA Privacy - Terms

Analyze again

Results

Hate speech detection with lexicons

no hate	hate
---------	------

Hate speech detection with machine learning

no hate	hate
---------	------

Sentiment analysis with lexicons

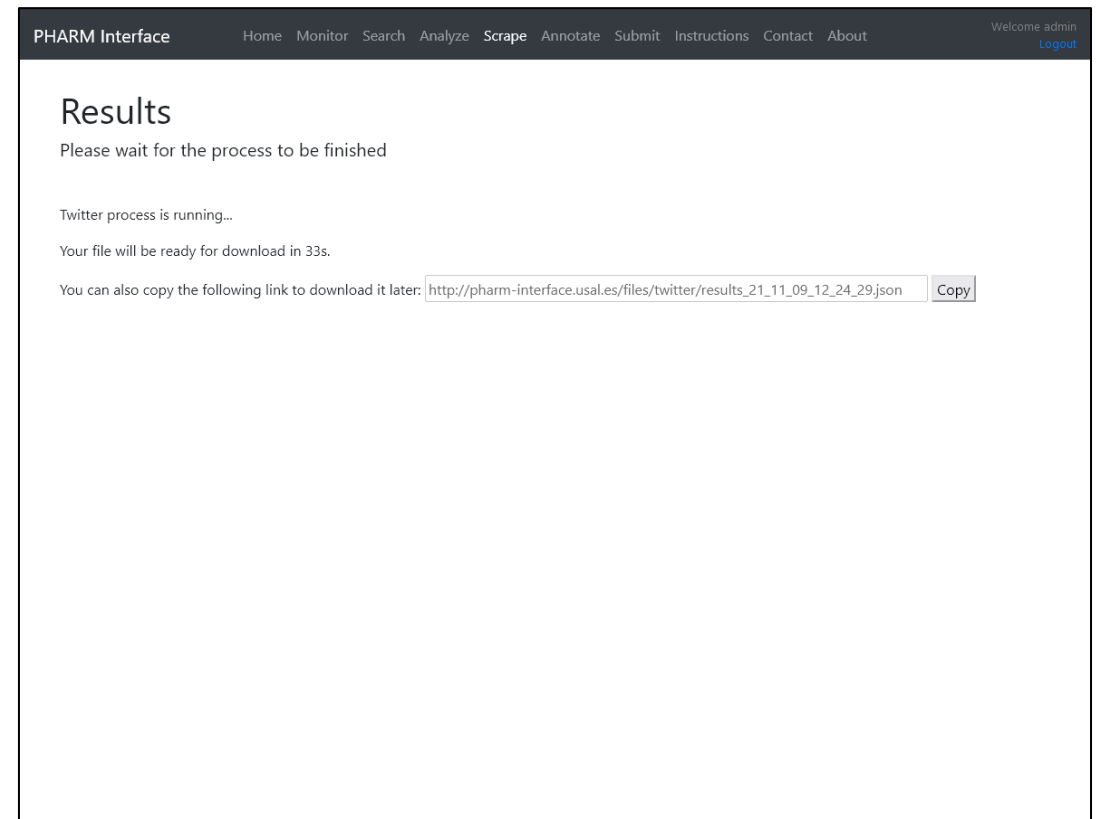
positive	negative
----------	----------

Sentiment analysis with machine learning

positive	negative
----------	----------

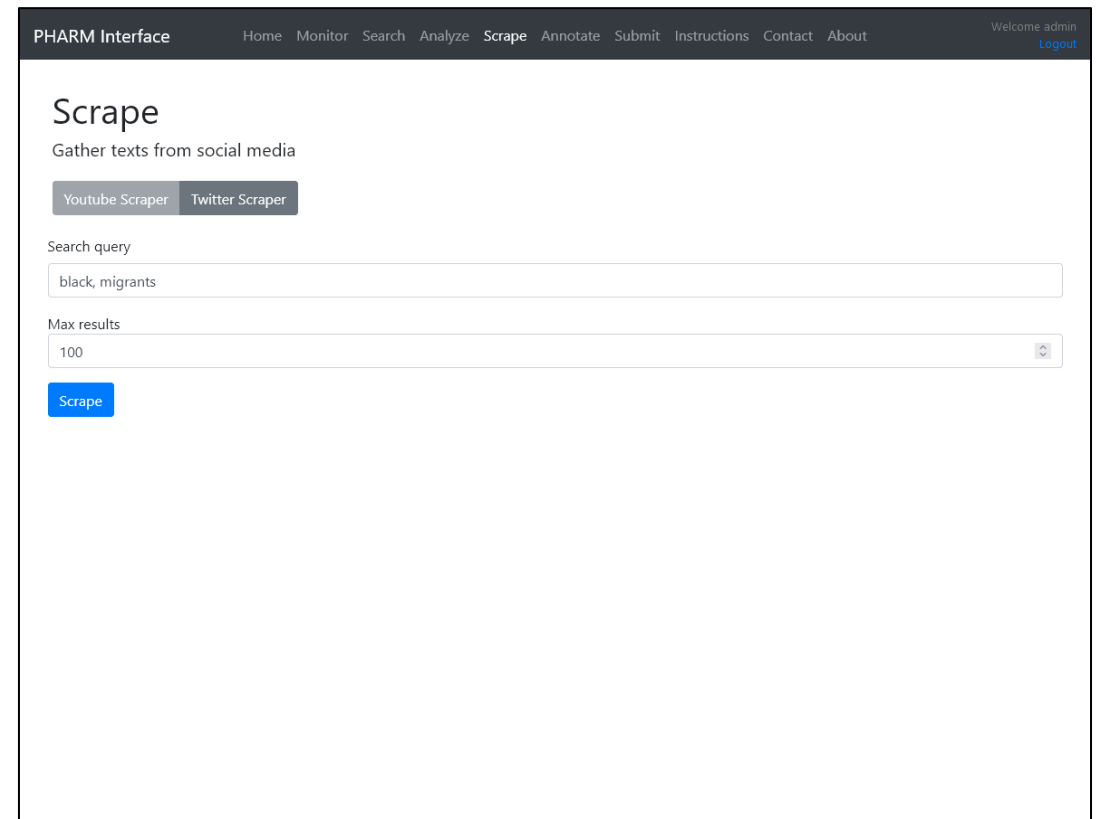
INTERFACE | TWITTER SCRAPING

- This module enables the mass-collection of text data from two popular platforms: Twitter and YouTube.
- A User can collect hate-speech data from Twitter, by simply choosing the desired language (Greek, English, Italian, or Spanish).
- A link is provided for downloading a JSON file that contains the data.



INTERFACE | YOUTUBE SCRAPING

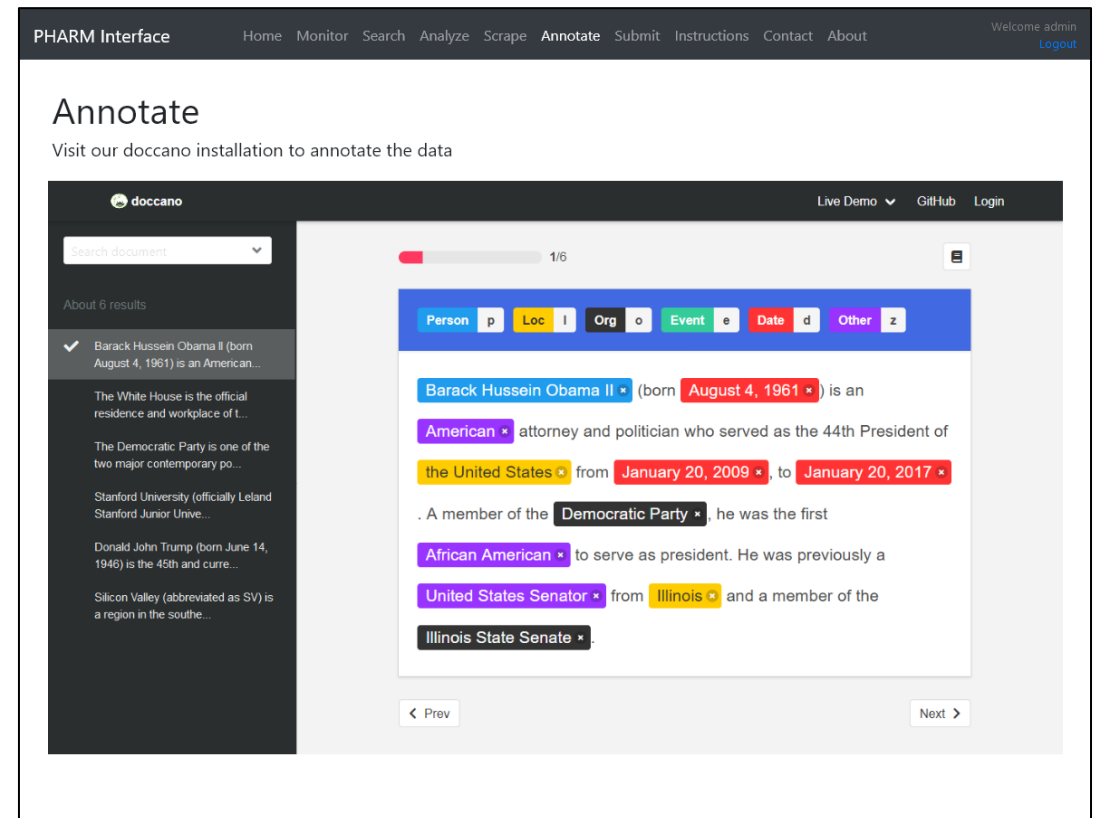
- In the case of YouTube, instead of selecting the language, a search query must be set.
- The process is instantaneous and a view displays the corresponding data.
- The data can be previewed.
- These data can be downloaded as a CSV or JSON file.



The screenshot shows the PHARM Interface's 'Scrape' page. The page has a dark header with the title 'PHARM Interface' and navigation links: Home, Monitor, Search, Analyze, Scrape (highlighted), Annotate, Submit, Instructions, Contact, and About. On the right side of the header, it says 'Welcome admin' and 'Logout'. The main content area is titled 'Scrape' and has the subtitle 'Gather texts from social media'. There are two tabs: 'Youtube Scraper' (selected) and 'Twitter Scraper'. Below the tabs is a 'Search query' input field containing the text 'black, migrants'. Underneath is a 'Max results' dropdown menu set to '100'. At the bottom of the form is a blue 'Scrape' button.

INTERFACE | ANNOTATE

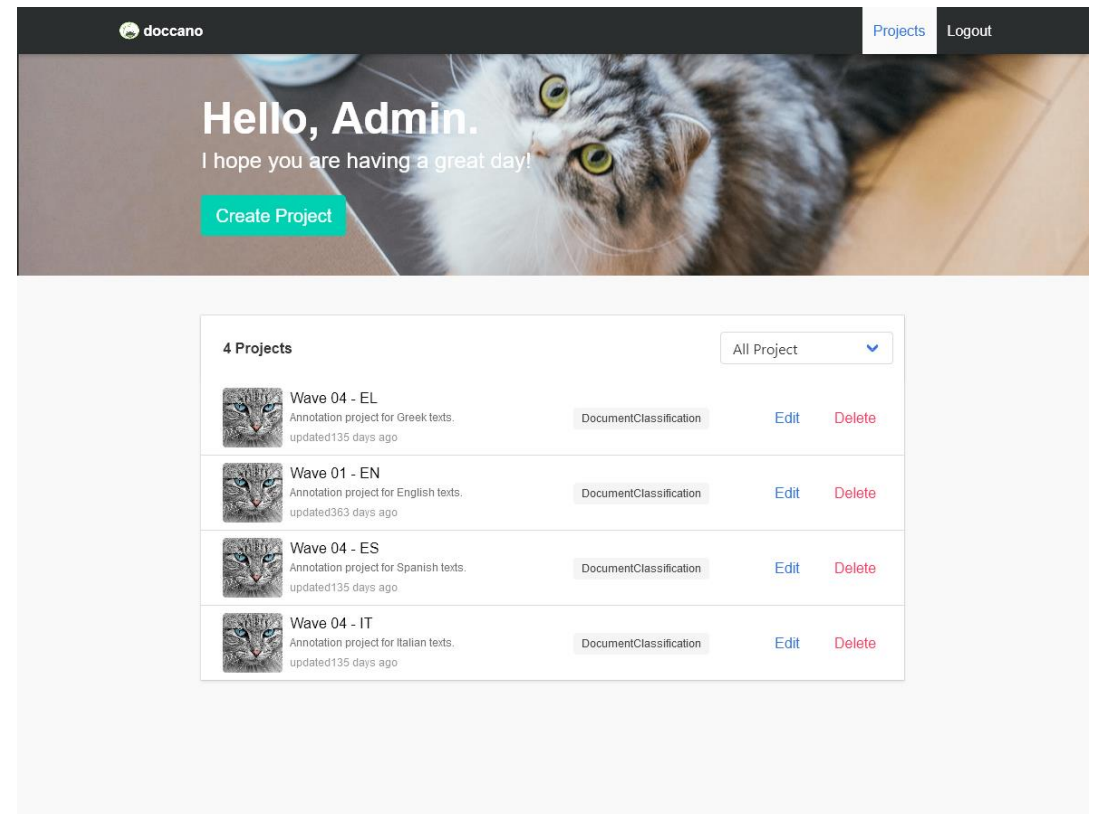
- The annotation process is powered by the doccano tool.
- Doccano is an annotation management system for text data and can be used for developing datasets for
 - classification,
 - sentiment analysis,
 - entity tagging,
 - translation tasks.



The screenshot displays the PHARM Interface's 'Annotate' page. The top navigation bar includes 'Home', 'Monitor', 'Search', 'Analyze', 'Scrape', 'Annotate', 'Submit', 'Instructions', 'Contact', and 'About'. The user is logged in as 'admin'. The main heading is 'Annotate' with the subtext 'Visit our doccano installation to annotate the data'. Below this is a 'doccano' interface showing a search bar and a list of results. The first result is selected, showing a document snippet with various entities highlighted in colored boxes: 'Barack Hussein Obama II' (Person), 'August 4, 1961' (Date), 'American' (Other), 'the United States' (Loc), 'January 20, 2009' (Date), 'January 20, 2017' (Date), 'Democratic Party' (Org), 'African American' (Other), 'United States Senator' (Other), and 'Illinois State Senate' (Other). A legend at the top of the document viewer identifies the colors for Person (p), Loc (l), Org (o), Event (e), Date (d), and Other (z). Navigation buttons for 'Prev' and 'Next' are visible at the bottom of the document viewer.

INTERFACE | DOCCANO

- In the context of the PHARM Project, it is used for text classification.
- "Hate" or "No Hate"
 - If the text contains content against refugees or migrants or not.
- "Positive", "Neutral", or "Negative"
 - According to the sentiment of the text.



INTERFACE | SUBMIT

- This page can be used for adding new records.
- Data entry can be executed either one by one or massively.
 - the user should set all data (text) and metadata (source, language, date, hate, sentiment, etc.) via the corresponding input forms.
 - If data are already formed appropriately, they can be imported as a JSON file too.

PHARM Interface Home Monitor Search Analyze Scrape Annotate **Submit** Instructions Contact About Welcome admin Logout

Submit

Submit a single or a batch of records to the PHARM database

Single Text Batch File

Submit single hate-speech related text to the PHARM database

Υπάρχει εισβολή, είναι λαθρομετανάστες ή οι ηγέτες της ΕΕ έχουν καλέσει τα σκουπίδια απ όλο τον κόσμο εδώ στην Ευρώπη? Όπως και να έχει, πρέπει να επιστρέψουν στις πατρίδες τους επειδή δεν μπορούν, δεν θέλουν, δεν καταλαβαίνουν πως να ενσωματωθούν. Έχουμε τεράστια πολιτιστική διαφορά!

Insert tags (optional):

refugees x

Choose text language: English Choose date (optional): 03/11/2021

Mark as: Hate speech Not hate speech Choose sentiment polarity: Positive Neutral Negative

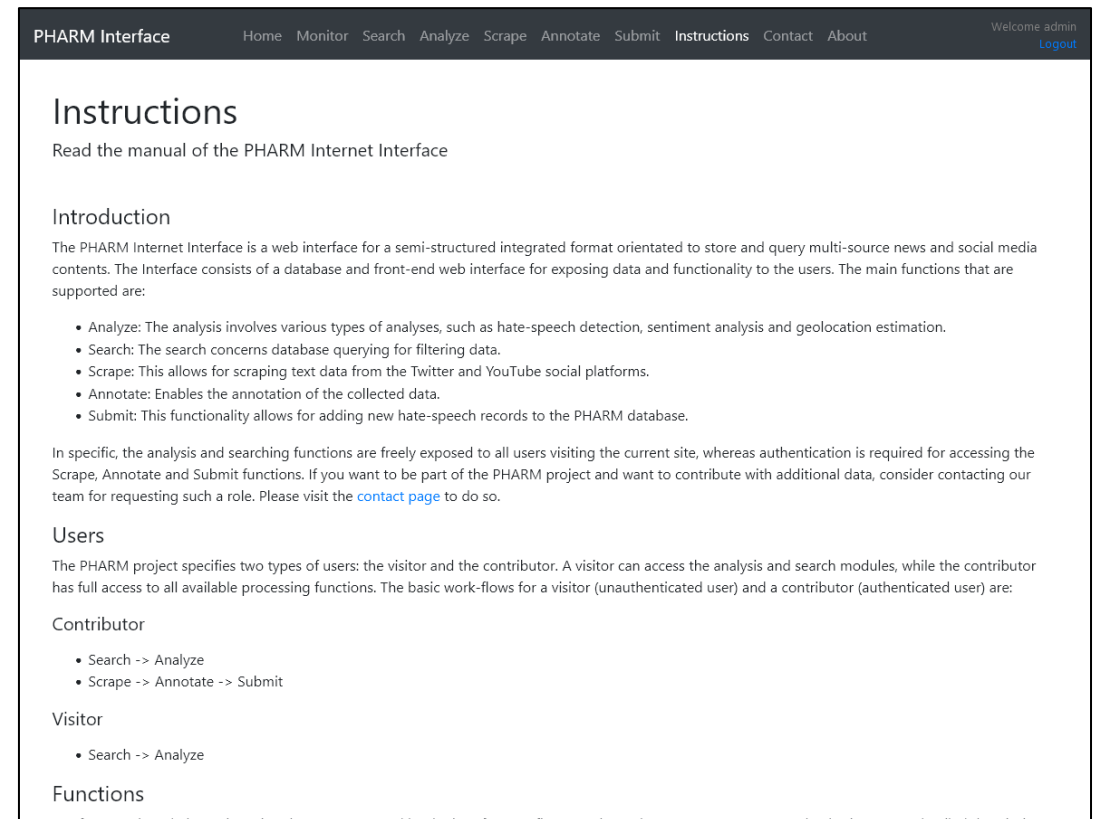
Choose text source: Twitter YouTube Facebook Comment Facebook Post Website Article Website Comment

Insert the source URL (optional): type the url

Submit

INTERFACE | INSTRUCTIONS

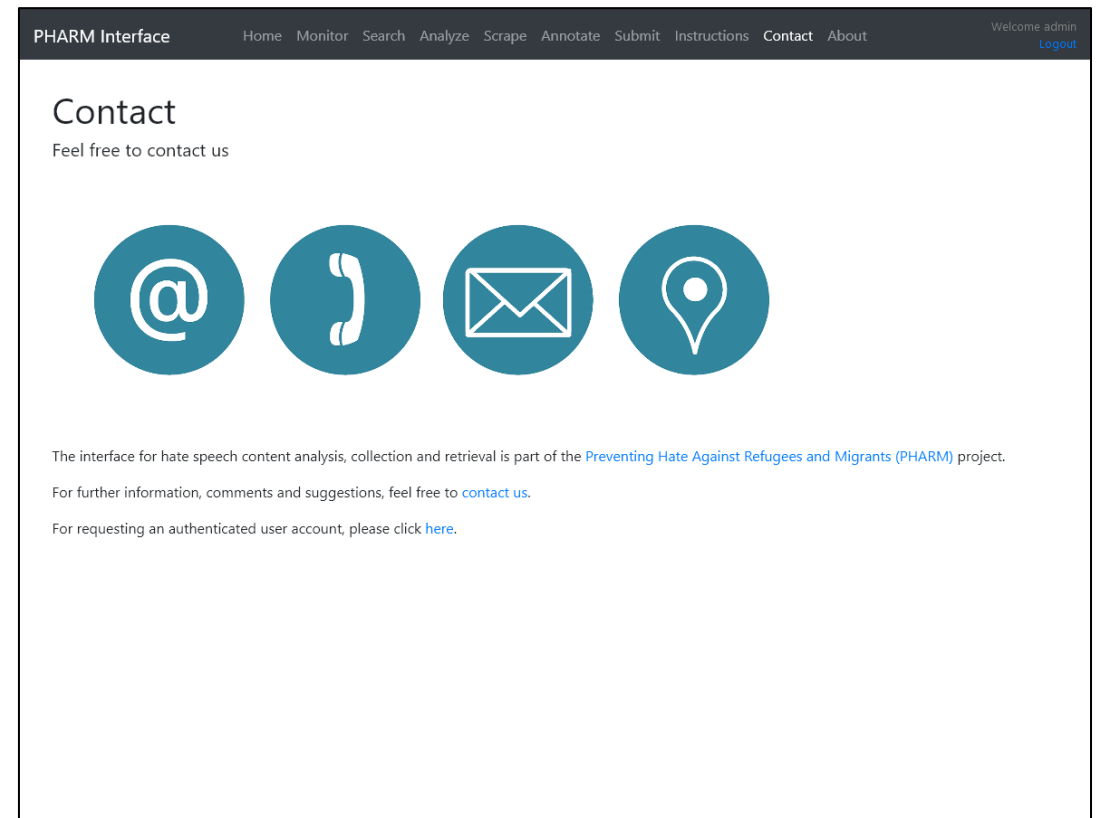
- Quick start guide.
- Instructions about all supported functions.
- Link to the PHARM GitHub repository for further technical information.
- There is a full guide of the Interface for additional information.
 - The guide is available in the English, Greek, Italian, and Spanish languages.



The screenshot shows the 'PHARM Interface' website with a navigation bar containing links for Home, Monitor, Search, Analyze, Scrape, Annotate, Submit, Instructions (highlighted), Contact, and About. The user is logged in as 'admin' with a 'Logout' link. The main content area is titled 'Instructions' and includes a sub-header 'Read the manual of the PHARM Internet Interface'. The page is divided into sections: 'Introduction' (describing the interface's purpose and supported functions), 'Users' (distinguishing between visitors and contributors), 'Contributor' (listing 'Search -> Analyze' and 'Scrape -> Annotate -> Submit'), 'Visitor' (listing 'Search -> Analyze'), and 'Functions'.

INTERFACE | CONTACT

- A user can also contact our team for:
 - further information,
 - support,
 - comments and suggestions,
 - requesting an authenticated user account (contributor).
- Contact e-mail:
 - pharm.project.eu@gmail.com



CONTACT US



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