

Information Extraction for YOU: A Persona-Based Life Story Generator Documentation

Release

FB Persona

July 24, 2018

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1.1 driver module

class `driver.Driver`

Bases: `object`

init (*name, data*)

Main function of the Information Extraction process

Parameters

- **persona** – persona of the user
- **name** – Facebook name of the user
- **data** – type of data to be extracted (1 for posts, 2 for liked pages, and 3 for events)

Returns

1.2 database module

class `database.Database`

Bases: `object`

connectDB ()

Connects to the Database

Returns cursor in the database

getDateTime (*timestamp*)

Converts the timestamp to date and time

Parameters **timestamp** – date and time the post was created

Returns date, time

getEventsByLabel (*persona, tableName*)

Gets the events by a specific user preference

Parameters

- **persona** – user preference
- **tableName** – table name of the user

Returns array of events

getLikesByLabel (*persona*, *tableName*)

Gets the liked pages by a specific user preference

Parameters

- **persona** – user preference
- **tableName** – table name of the user

Returns array of liked pages

getPostsByLabel (*persona*, *tableName*)

Gets the posts by a specific user preference

Parameters

- **persona** – user preference
- **tableName** – table name of the user

Returns array of posts

getProfile (*name*)

Gets the profile information of the user from the database

Parameters **name** – Facebook name of the user

Returns instance of a profile

1.3 filemanager module

class filemanager.**FileManager**

Bases: `object`

writeFile (*filename*)

Writes file (only applicable if exporting the results to .txt) :param filename: desired name of the file

Returns

1.4 clean module

class clean.**Clean**

Bases: `object`

cleanData (*posts*, *profile*)

Main function for cleaning the data

param posts list of raw posts

param profile profile object of the user

Returns array of cleaned posts

dividePost (*post*)

Dividing the raw post to 3 main elements

param post raw post

Returns event, shared post caption, user thought

extractElements (*p*)

Extracts the hashtags and mentions from the post

param *p* an instance of a post (with no values for hashtags and mentions)

Returns an instance of a post (with values for hashtags and mentions)

mild_clean (*query*)

Function for mild cleaning

param *query* raw post

Returns cleaned post

thorough_clean (*post*)

Function for thorough cleaning

param *post* raw text

Returns cleaned text

1.5 emojiremove module

class emojiremove.EmojiRemove

Bases: `object`

A class for removing not only the emoji/emoticons, but also other entities like new lines, whitespaces, URLs and email addresses.

removeExtras ()

Removes the URLs and Email Addresses in the post

param *text* raw text

Returns cleaned text

removeNewLine ()

Removes the new lines in the post

param *text* raw text

Returns cleaned text

removeWhitespaces ()

Removes the whitespaces in the post

param *text* raw text

Returns cleaned text

remove_emoji ()

Removes the emojis/emoticons in the post

param *text* raw text

Returns cleaned text

remove_specialChars ()

Removes the special characters (except `!?,'"@&:/-]+`) in the post

param *text* raw text

Returns cleaned text

1.6 entity module

```
class entity.Entity
    Bases: object

    def exists ( token )
        Determines whether a certain word or entity exists
        param token specific token
        Returns True or False

    def isAnEntity ( token )
        Determines whether the token is an entity or not
        param token specific token
        Returns
```

1.7 spellcheck module

```
class spellcheck.SpellChecker
    Bases: object

    def compareWord ( word, fil, eng )
        Compares the original text to the suggested filipino and english text
        param word original text
        param fil Suggested Filipino text
        param eng Suggested English text
        Returns Filipino or English word (which one is closest)

    def findMostSimilar ( word, tokens )
        Finds the most similar word from the list of suggested spelled words
        param word original text
        param tokens array of suggested spelled words from HunSpell
        Returns most similar text

    def inPeople ( text, people )
        Checks if the token belongs to the mentioned people
        param text text
        param people array of mentioned people
        Returns True or False

    def spell ( text, post )
        Main function for spell corrector
        param text post that has already undergone cleaning process beforehand
        param post raw post
        Returns spelled post
```


spellCorrect (*token*)

Distinguishes whether the word is spelled correctly or not.

param token original text**Returns** True or False**spell_Eng** (*token*)

Determines whether the spelling is in the English dictionary and gets the suggested English words

param token original text**Returns** array of suggested spelled English words from HunSpell**spell_Fil** (*token*)

Determines whether the spelling is in the Filipino dictionary and gets the suggested Filipino words

param token original text**Returns** array of suggested spelled Filipino words from HunSpell

1.8 alchemyapi module

class alchemyapi.**AlchemyAPI**Bases: `object`**data** = None**getCategories** (*query*)Get the value from the categories feature of Watson API with $\geq 75\%$ relevance according to category type**param query** category type**Returns** JSON of categories**getCategoriesNoRelevance** ()

Get the value from the categories feature of Watson API with no relevance

Returns JSON of categories**getCategoriesNoRelevance2** ()

Get the 3rd level hierarchy from the categories feature of Watson API

Returns array of 3rd level hierarchies**getConcepts** ()

Get the value from the concepts feature of Watson API with no relevance

Returns JSON of concepts**getConceptsRelevance** ()Get the value from the concepts feature of Watson API with $> 85\%$ relevance**Returns** JSON of concepts**getEntities** ()

Get the value from the entity feature of Watson API

Returns JSON of entities

getKeywords ()

Get the value from the keywords feature of Watson API with > 50% relevance

Returns JSON of keywords

getKeywordsNoRelevance ()

Get the value from the keywords feature of Watson API with no relevance

Returns JSON of keywords

getRelations ()

Get the value from the relations feature of Watson API

Returns JSON of relations

getSemanticRoles ()

Get the value from the semantic role feature of Watson API

Returns JSON of semantic roles

getSentiment ()

Get the value from the sentiment feature of Watson API

Returns sentiment

natural_language_understanding = None

nlu (query)

API Call to IBM Watson API to get the information about the query
param query

Returns True (if without error/s) or False (if with error/s)

1.9 asstypes module

class asstypes.AssTypeInfo

Bases: `object`

fangirlboy (data, assertions)

Identifying assertion type for The Fangirl/Fanboy

param assertions array of extracted information

param data array of data frames

Returns array of The Fangirl/Fanboy dataframes

foodie (data, assertions)

Identifying assertion type for The Foodie

param assertions array of extracted information

param data array of data frames

Returns array of The Foodie dataframes

getAssertion (*persona*, *data*)

Gets the data frames with identified assertion types

param persona persona**param data** array of data frames**Returns** list of data frames with identified assertion types**getChecklist** (*persona*)

Gets the list of information to be extracted for each posts

param persona persona**Returns** JSON of information

1.10 conceptnet module

class conceptnet . **ConceptNet**Bases: `object`**getIsTypeOf** (*query*)

Get the “Is Type Of” of the query

param query query**Returns** types**search** (*query*)

Searches through ConceptNet

param query query**Returns** edges

1.11 contextunderstanding module

class contextunderstanding . **ContextUnderstanding**Bases: `object`**asstypeinfo** = <context.asstypes.AssTypeInfo object>**fan** = <context.fanextract.FanExtractor object>**foodie** = <context.foodextract.FoodieExtractor object>**game** = <context.gameextract.GameExtractor object>**getContext** (*persona*, *cleaned*, *profile*)

Function for context understanding

param persona specific user preference of the user**param cleaned** list of cleaned posts**param profile** profile object of the user**Returns** array of data frames with assertion types**sport** = <context.sportextract.SportExtractor object>

1.12 dbpedia module

class `dbpedia.DBPedia`

Bases: `object`

getHypernym (*query*)

Gets the hypernym of the query

param query query

Returns hypernym

getType (*query*)

Gets the type of the query

param query query

Returns array of types

nlp = `<spacy.lang.en.English object>`

search (*query*)

Distinguishes whether the query exists on DBPedia

param query query

Returns True or False

searchFoodCategory (*query*)

Gets the category of food

param query food

Returns array of food categories

sparql = `None`

1.13 fanextract module

class `fanextract.FanExtractor`

Bases: `object`

Context Understanding for The Fangirl/Fanboy

createAssertionStoryPost (*base_data, post, postInfo, storyInfo, assertions*)

extracts information from event and shared post caption

param base_data data frame that contains the specific information that can be extracted

param post post instance

param postInfo shared post caption

param storyInfo event

param assertions list of already extracted information

Returns list of extracted information

describeSubject (*sentiment*)

Extracts data from “describing the subject” subject situation

param sentiment user thought

Returns describe data

extractPost (*post*)

Extracts data from the shared post caption

param post shared post caption

Returns post data

extractSentiment (*sentiment*)

extracts information from the user thoughts

param sentiment user thought

Returns activity data, describe data, subject data, sentiment data

extractStory (*story*)

Extracts data from the event

param story event

Returns event data

fanExtract (*post, persona, person*)

Main function for The Fangirl/Fanboy context understanding

param post specific post

param persona persona

param person user

Returns array of extracted information

findSubject (*post*)

Finds the subject of the post

param post post

Returns post data

findTitleInQuotes (*post*)

Extracts the title of an object that are enclosed with “”

param post post

Returns title

find_adj (*docu*)**find_verb** (*docu*)**getSentiment** (*sentiment*)

Gets the sentiment from Watson API

param sentiment user thought

Returns sentiment

isArt (*title*)

Determines whether the entity is a novel, book, song, or movie

param title title of the entity

Returns True or False

narratingActivity (*sentiment*)

Extracts data from narrating an activity subject situation

param sentiment user thought

Returns activity data

1.14 foodextract module

class foodextract.FoodieExtractor

Bases: `object`

Context Understanding for The Fangirl/Fanboy

api = <context.alchemyapi.AlchemyAPI object>

asstypeinfo = <context.asstypes.AssTypeInfo object>

conceptnet = <context.conceptnet.ConceptNet object>

dbpedia = <context.dbpedia.DBpedia object>

extractFoodPostInformation (*post*)

extracts the food (subject) from the post

param post post

Returns food, food organization

extractStoryInformation (*story*)

extracts information from the event

param story event

Returns action, organization, location, tagged_friends

find_root (*docu*)

finds the root token of a sentence

param docu sentence/query

Returns root token

foodieExtract (*post, persona, person*)

Main function for The Foodie context understanding

param post specific post

param persona persona

param person user

Returns array of extracted information

getFood (*keywords*)

determines if the keywords generated from Watson API has a food entity

param keywords array of keywords

Returns array of foods

```

getFoodType ( query )
    distinguishes the food type
    param query food
    Returns array of categories

getPersonMentioned ( )
    get the mentioned name of a person
    Returns array of names

getPlace_Organization ( )
    gets the place and organization related to the post
    Returns food organization, location

gsearch = <context.googlesearch.GoogleSearch object>

nlp = <spacy.lang.en.English object>

person = "

```

1.15 gameextract module

```

class gameextract.GameExtractor
    Bases: object
    Context Understanding for The Gamer

    activities ( post )
        extracts data for "narrating an activity" subject situation
        param post post
        Returns

    activitiesDone = []

    activitiesTerms = ['giveaway', 'giveaways', 'livestreaming', 'livestreams', 'livestream']

    activityExists ( af, g )
        searches if activity with the same value already exists
        param af activity value
        param g game value
        Returns True or False

    addToActivities ( activity, game, action )
        add values to activities
        param activity activity
        param game game
        param action action
        Returns

    addToGames ( gamee, typee )
        add values to played games

```

param gamee game
 param typee type
Returns

addToTeams (*team, games, country*)
 add values to supported teams
 param team team
 param games games
 param country country
Returns

api = <context.alchemyapi.AlchemyAPI object>
asstypeinfo = <context.asstypes.AssTypeInfo object>
conceptnet = <context.conceptnet.ConceptNet object>
dbpedia = <context.dbpedia.DBPedia object>
eventTerms = ['festival', 'fest', 'concert', 'cup', 'tournament']
extractStory (*story*)
 extract data from the event
 param story event
Returns

gameExtract (*posts, persona, person*)
 Main function for The Gamer context understanding
 param posts array of cleaned posts
 param persona persona
 param person user
Returns array of extracted information

game_dic = <prepros.dictionaries.game_dic.GameDictionary object>
game_team = <prepros.dictionaries.game_team_dic.GameTeamsDictionary object>
games = {}
generateAssertions ()
 collect extracted information
Returns

gsearch = <context.googlesearch.GoogleSearch object>
nlp = <spacy.lang.en.English object>
peopleEntities = ['gamer', 'streamer']
person = "
persona = "

playOnPost (*post*)

extracts the game he plays from the shared post caption

param post shared post caption**Returns****playOnSentiment** (*sentiment*)

extracts the game he plays from the user thought

param sentiment user thought**Returns****playOnStory** (*storyDict*)

extracts the game he plays from the event

param storyDict event data**Returns****subjects** = {}**teamOnPost** (*post*)

extracts the team he supports from the shared post caption

param post post**Returns****teamOnSentiment** (*sentiment*)

extracts the team he supports from the user thought

param sentiment user thought**Returns****teamOnStory** (*storyDict*)

extracts the team he supports from the event

param storyDict event data**Returns****teams** = {}**terms** = ['gaming', 'game']

1.16 googlesearch module

class googlesearch.**GoogleSearch**Bases: `object`**dataCleaning** (*description*)

a part of the process of getting the frequent words

param description

description

Returns

feature_extraction (*train_texts*)

a part of the process of getting the frequent words

param train_texts train_texts

Returns

getFood (*mentions*)

searches through Google and determines if it is a food

param mentions mentions

Returns

get_most_common_terms (*train_texts*)

a part of the process of getting the frequent words

param train_texts train_texts

Returns

isPerson (*query*)

searches through Google and determines if it is a person

param query query

Returns True or False

search (*query*)

searches through Google

param query query

Returns 30 most frequent words

stemming_tokenizer (*text*)

a part of the process of getting the frequent words

param text text

Returns

tf_idf (*description*)

a part of the process of getting the frequent words

param description

description

Returns

1.17 likedpageevents module

class likedpageevents.LikedPagesEvents

Bases: `object`

extractEvents (*data, persona*)

extracts events

param data events

param persona persona

Returns array of events in data frames

extractLikedPages (*data, persona*)

extracts liked page

param *data* liked pages

param *persona* persona

Returns array of liked pages in data frames

fanCateg = ['Automotive Company', 'Biotechnology Company', 'Cargo & Freight Company', 'Community Organization', 'Community Services', 'Company', 'Health/Beauty', 'Non-Governmental Organization', 'Non-Profit Organization', 'Organization', 'Political Organization', 'Political Party', 'Retail Company', 'Telecommunication Company', 'Tobacco Company', 'Travel Company', 'App Page', 'Appliances', 'Baby Goods/Kids Goods', 'Bags/Luggage', 'Brand', 'Building Materials', 'Camera/Photo', 'Cars', 'Clothing (Brand)', 'Commercial Equipment', 'Furniture', 'Home Décor', 'Household Supplies', 'Jewelry/Watches', 'Kitchen/Cooking', 'Office Supplies', 'Patio/Garden', 'Pet Supplies', 'Pharmaceuticals', 'Phone/Tablet', 'Product/Service', 'Software', 'Tools/Equipment', 'Vitamins/Supplements', 'Website', 'Wine/Spirits', 'Actor', 'Artist', 'Author', 'Band', 'Blogger', 'Chef', 'Comedian', 'Dancer', 'Entrepreneur', 'Fashion Model', 'Fictional Character', 'Film Director', 'Fitness Model', 'Government Official', 'Journalist', 'Motivational Speaker', 'Movie Character', 'Musician', 'News Personality', 'Pet', 'Photographer', 'Political Candidate', 'Politician', 'Producer', 'Public Figure', 'Scientist', 'Teacher', 'Video Creator', 'Writer', 'Album', 'Book', 'Book Series', 'Book Store', 'Concert Tour', 'Festival', 'Fictional Character', 'Library', 'Literary Arts', 'Magazine', 'Movie', 'Movie Character', 'Movie Theater', 'Movie/Television Studio', 'Music Award', 'Music Chart', 'Music Video', 'Performance & Event Venue', 'Performance Art', 'Performing Arts', 'Podcast', 'Radio Station', 'Record Label', 'Show', 'Song', 'Theatrical Play', 'Theatrical Productions', 'TV Channel', 'TV Network', 'TV Show', 'TV/Movie Award']

foodieCateg = ['Agriculture Company', 'Company', 'Food & Beverage Company', 'Retail Company', 'Tobacco Company', 'Non-Governmental Organization', 'Non-Profit Organization', 'Organization', 'Retail Company', 'App Page', 'Brand', 'Food & Beverage Company', 'Chef']

gamerCateg = ['Community Organization', 'Community Services', 'Company', 'Computer Company', 'Internet Company', 'Non-Governmental Organization', 'Non-Profit Organization', 'Organization', 'Retail Company', 'App Page', 'Board Game', 'Brand', 'Computers (Brand)', 'Electronics', 'Games/Toys', 'Phone/Tablet', 'Product/Service', 'Software', 'Video Game', 'Amateur Sports Team', 'Sports League', 'Sports Team', 'Stadium', 'Arena & Sports Venue', 'School Sports Team', 'Athlete', 'Coach']

getEventDetails (*page*)

gets the event details such as event name and rsvp from the event

param *page* page

Returns event, rsvp

getPageName (*page*)

gets the page name from a liked page

param *page* page

Returns page name

nlp = <spacy.lang.en.English object>

sportsCateg = ['Community Organization', 'Community Services', 'Company', 'Non-Governmental Organization', 'Non-Profit Organization', 'Organization', 'Retail Company', 'App Page', 'Brand', 'Amateur Sports Team', 'School Sports Team', 'Sports League', 'Sports Team', 'Stadium', 'Arena & Sports Venue', 'Athlete', 'Coach']

1.18 sportextract module

class sportextract.**SportExtractor**

Bases: `object`

Context Understanding for The Sports Fanatic

addToFanOf (*fanOf*, *categories*)

add values to fanOf

param fanOf fanOf

param categories categories

Returns

addToTeam (*team*, *categories*)

add values to teams

param team team

param categories categories

Returns

combinePost (*p*)

combines the story, post, and sentiment

param p post instance

Returns

determineSport (*post*)

distinguishes if it is a sport or not

param post combined post

Returns

extractFanOf (*statement*)

extracts the athlete he supports

param statement user thoughts

Returns

extractStory (*story*)

extracts data from the event

param story event

Returns event data

generateAssertions ()

collect extracted information

Returns

getSentiment (*statement*)

gets Sentiment from Watson API

param statement user thought

Returns

getSubjects (*statement*)

determines the subject

param statement user thought**Returns****searchLeague** (*page*)

extracts the leagues he follows

param page shared post caption**Returns****sportExtract** (*posts, persona, person*)

Main function for The Sports Fanatic context understanding

param posts array of cleaned posts**param persona** persona**param person** user**Returns** array of extracted information

1.19 translator module

class translator.**TGENTranslator**Bases: `object`**translateQuery** (*query*)

translates Tagalog to English texts

param query query**Returns** translated text

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