An Expert System to identify Classes of Bragging in social media according to their characteristics.

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Introduction

Sharing information is widely used in everyday communication and is especially well enough on social media, where individuals attempt to establish a positive opinion of themselves either directly or indirectly. Online social networks have developed into a popular platform for communication and interaction among millions of members. It is not just a novel platform, but also novel practices. Bragging is one of the most common techniques of communication which involves highlighting good quality about the speaker through positive statements for creating a favorable self-image, self-disclosing, self-promotion and self representation in social circles. It also can be interpreted negatively and lead to further violence sometimes. Identification and classification of bragging assists the people to be updated about the situation as well as beneficial for public safety personnel for decision making. THAT'S WHY to classify the unknown text according to its types we propose an expert system which can reduce time of detecting bragging classes in social media.

Aim and Objectives:

- ❑Identify the classes of bragging in social media.
- ❑Separate the bragging according to their characteristics.
- ❑Able to detect bragging for specific class by comparing their characteristics.
- ❑Helps to express feelings, possession, action, achievements according to the situation to maintain social circle peacefully.

Core Components

This expert system has been typically designed to provide capabilities similar to those of a human expert when performing a task. This expert system usually has two core components:

Knowledge base: This component consists of data, facts and rules for a certain topic, industry or skill, usually equivalent to that of a human expert.

Interference engine: This component uses the facts and rules in the knowledge base to find and learn new knowledge or patterns.

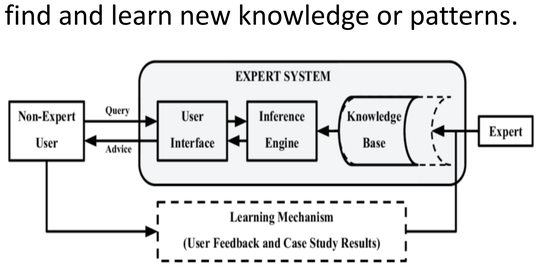
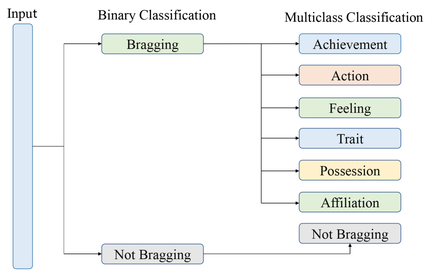


Figure: Block diagram of ES

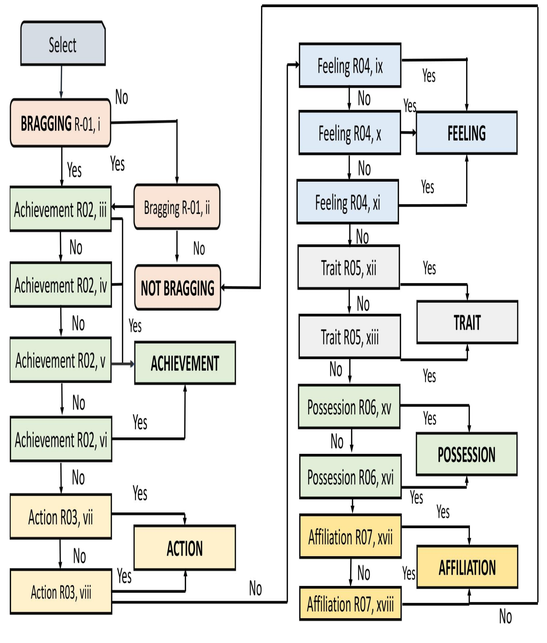
Methodology

An expert system is a computer program that is designed to solve complex problems and to provide decision-making ability like a human expert. The goal of this expert system is to identify (classify) an a statement based on their types. The knowledge of the system We use two classification techniques in the case. They are binary classification and multiclass classification. The knowledge base consists of only few rules. Expert system will use a search procedure. The rules of the knowledge base is based on IF .•. THEN ... rules which were implemented in almost the same format using prolog.



Design

Design describe how the expert system react according to commands given to prolog environment for identifying the classes of the plants. Action performed by the commands is represented in circular form and arrows represent direction from one action to another action.When all conditions are satisfied according to their characteristics then it shows the class of bragging . Design of expert system is shown in bellow Figure.



Implementation and Result

The implementation of the project has been done in prolog. Here is the snapshot of the result generated by the program using a sample example below:

```
% c:/users/hp/downloads/braggingtest (1) compiled 0.00 sec, -3 clauses
?- go.
Mention statement_is_clear_what_the_author_indicate? no.

Mention statement_belong_to_selg-representation? |: no.

I guess that the Bragging types is: not_bragging
true.

?- go.
Mention statement_is_clear_what_the_author_indicate? yes.

Mention successful_completion_or_accomplishment? |: no.

Mention concrete_outcome_of_individual_actions? |: no.

Mention accomplished_goals_awards_and_positive_change? |: no.

Mention accomplished_by_hard_work_ability_or_heroism? |: yes.

I guess that the Bragging types is: achievement
true.

?- go.
Mention statement_is_clear_what_the_author_indicate? no.

Mention statement_belong_to_selg-representation? |: yes.

Mention successful_completion_or_accomplishment? |: no.

Mention concrete_outcome_of_individual_actions? |: no.

Mention accomplished_goals_awards_and_positive_change? |: no.

Mention accomplished_by_hard_work_ability_or_heroism? |: no.

Mention doing_something_to_achieve_an_aim_or_deal_with_situation? |: yes.

I guess that the Bragging types is: action
true.

?-
```

Conclusion

An expert system made successfully. It helps to know about the types of bragging in in social media. The prolog program that I built is very simple to use and efficient. It's pretty accurate too. This system can fulfill the need of classify bragging and make awareness among the general masses. The program asks a few yes/no questions to the user to note down which rules it belong to. It is to be noted that the knowledge base is also accompanied with an interference base. Thus the expert system is more enriched and learns from experience bit by bit.