Team Humour Insights at JOKER 2024 Task 2: Humour Classification According To Genre And Technique

Rakshith Subramanian, Vaishnavi S and B Bharathi
SSN College Of Engineering, Chennai, India.

Task Description Humour classification according to genre and technique
Objective :Classifying short texts of humor among the different classes such as Irony, Sarcasm, Exaggeration, Incongruity, Absurdity, etc.
Submission :1 Run was submitted for task 2.

Introduction

Introduction:

This paper presents an automated method for classifying humorous content into various genres and techniques, such as irony, sarcasm, exaggeration, incongruity-absurdity, self-deprecating humour, and wit-surprise.

- **Application :** The method can be used in a variety of scenarios, including mental health monitoring, online well-being surveys, and sentiment analysis in social media, to identify and support people who are depressed.

- **Example :** "If an actress has a screaming role, can we say that she earns a living?"
- **Prediction :** WS

Data set Description

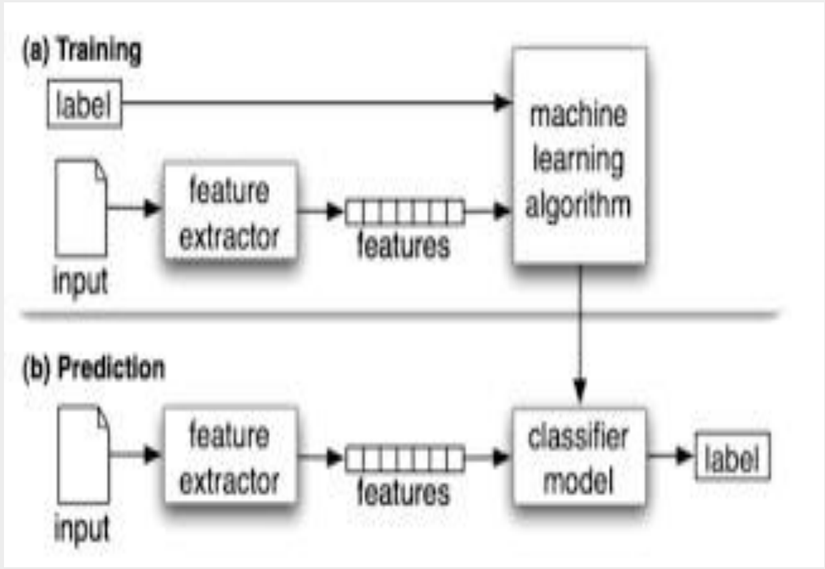
Dataset Information	Dataset Size
Labels	"IR", "SC", "EX", "AID", "SD", "WS"
Irony (IR)	300
Sarcasm (SC)	450
Exaggeration (EX)	350
Incongruity-Absurdity (AID)	200
Self-Deprecating (SD)	150
Wit-Surprise (WS)	250

Methodology

- Task2: Random Forest
- To predict the Humour According to Genre and Technique
- Approach :.Using Random Forest

Method: Random Forest

- Random Forest was chosen for its robustness and ability to handle high-dimensional data in our depression analysis.
- This ensemble learning method combines multiple decision trees to improve prediction accuracy.



Methodology for Task -2

Performance

Model	Precision	Recall	F1 Score	Accuracy
KNN	0.46	0.50	0.48	92
RF	0.93	0.93	0.93	93
DT	0.51	0.50	0.50	88
SVM	0.45	0.50	0.47	90
Naive Bayes	0.68	0.69	0.67	69
Logistic Regression	0.88	0.88	0.88	88
AdaBoost	0.46	0.37	0.35	37
Gradient Boosting	0.80	0.80	0.79	80
Multi-layer Perceptron	0.89	0.90	0.89	90

Evaluation of Task -2

Inferences

- Nine Models Namely KNN, KNN, Random Forest, ✓ Decision Tree, SVM, Naïve Bayes, Logistic Regression, AdaBoost, Gradient Boosting, MLP were employed for analyzing the given social media texts

- Among these Models Random Forest gave the Highest accuracy in Predicting the target Labels

✓