

Big Data Computing 2021-2022

Fake News Detection using Pyspark

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Outline

- 1. Introduction
- 2. Dataset
- 3. Models
- 4. Experimental results
- 5. Conclusion
- 6. A functional Application
- 7. Contribution



Introduction

- ❖ The main objective of the project is to determine if a given text data by the user is fake or real.
- * It consists of a binary classification problem.
- ❖ In order to automate the news qualifying procedure I implemented 4 machine learning algorithms to predict the news.



Dataset

- ❖ The <u>dataset</u> is derived from Kaggle resource and is composed by text data.
- It consists of around 44900 training examples.
- ❖ The ratio between minority class and majority is particularly small.



Models

- 1. Logistic Regression
 - Logistic Regression
- 2. Random Forest
 - Random Forest Classifier
- 3. Multilayer Perceptron
 - MultilayerPerceptronClassifier
- 4. Transformers
 - Happy Transformer