CAPSTONE PROJECT

FAKE NEWS

Presented By:
1. Student Name- JOHN DANGMEI
2. College Name- MADHA ENGINEERING COLLEGE
3. Department- CIVIL ENGINEERING

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OUTLINE

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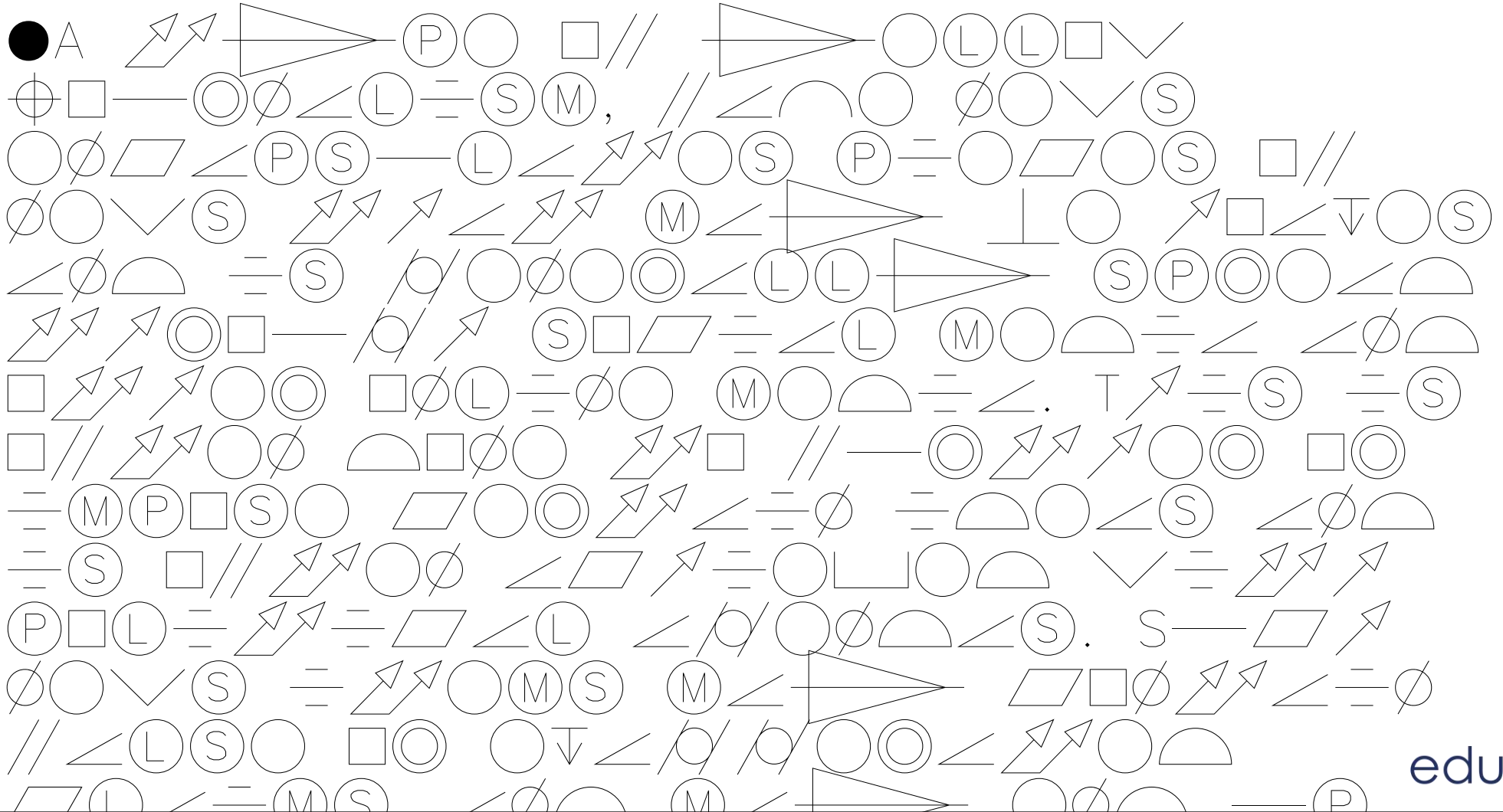
INTRODUCTION

- FAKE NEWS SPREADS LIKE A WILDLIFE AND THIS IS A BIG ISSUE IN THIS ERA.

- FOR SOME YEARS, MOSTLY SINCE THE RISE OF SOCIAL MEDIA, FAKE NEWS HAVE BECOME A SOCIETY PROBLEM, IN SOME OCCASION SPREADING MORE AND FASTER THAN THE TRUE INFORMATION, IN THIS PAPER I EVALUATE THE PERFORMANCE OF ATTENTION MECHANISM FOR FAKE NEWS DETECTION ON TWO DATASETS, ONE CONTAINING TRADITIONAL ONLINE NEWS ARTICLES AND THE SECOND ONE NEWS FROM VARIOUS SOURCES.

WHAT IS FAKE NEWS..ST



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FAKE NEWS CHARACTERIZATION

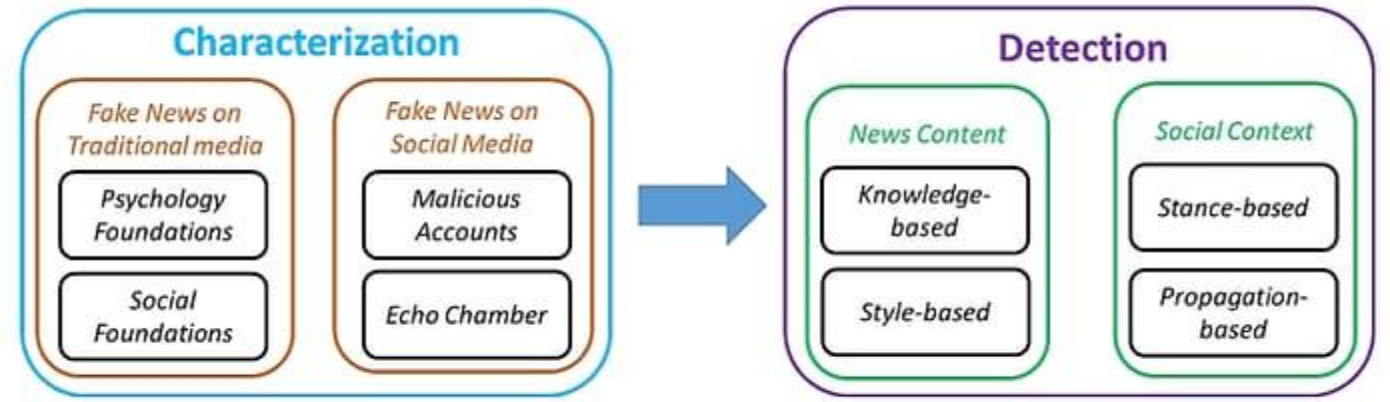
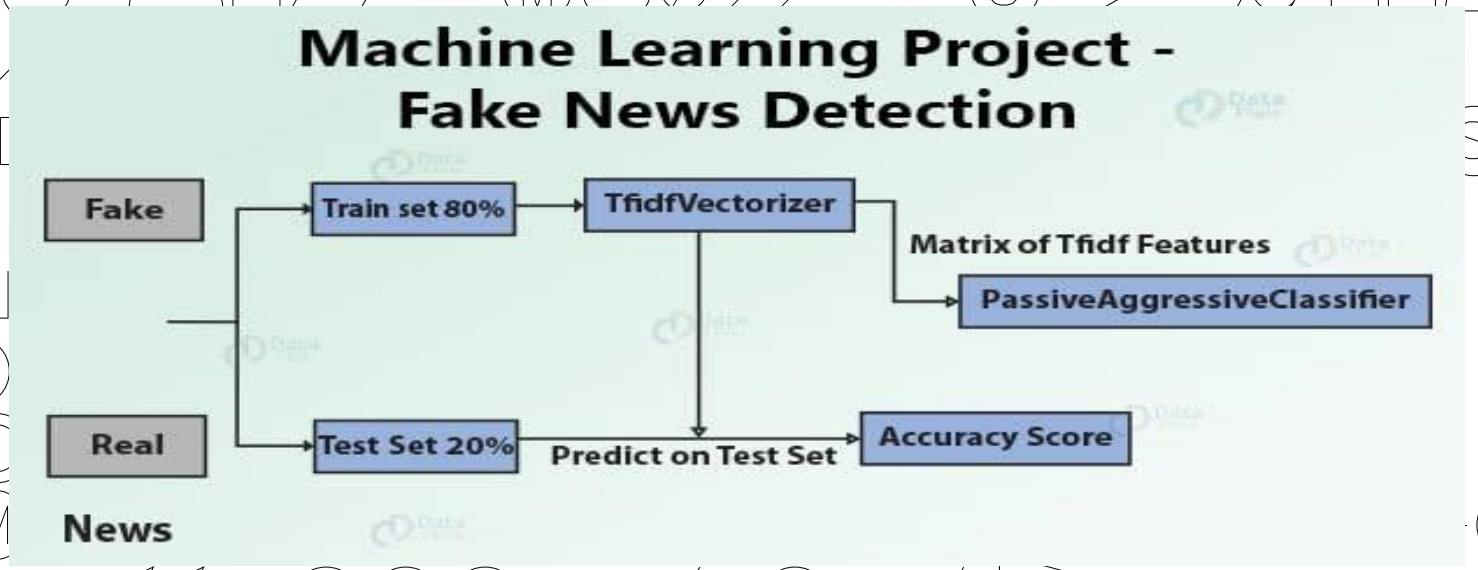
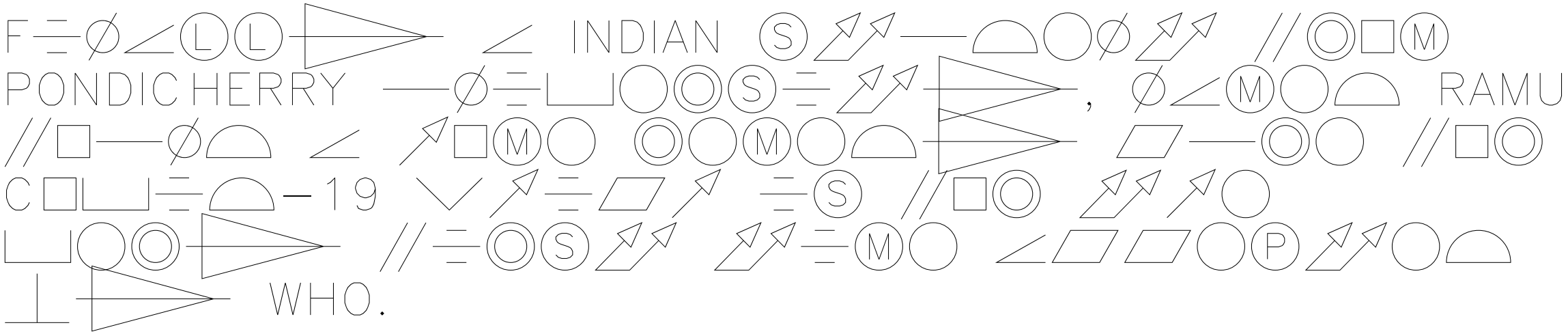


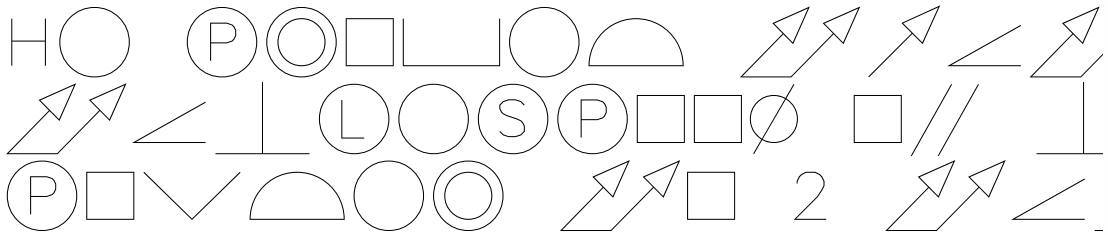
Figure 1: Fake news on social media: from characterization to detection.

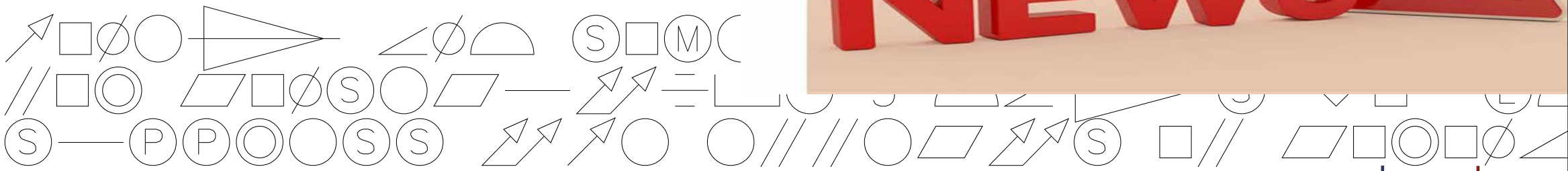
WHAT IS TFIDFVECTORIZER



EXAMPLE







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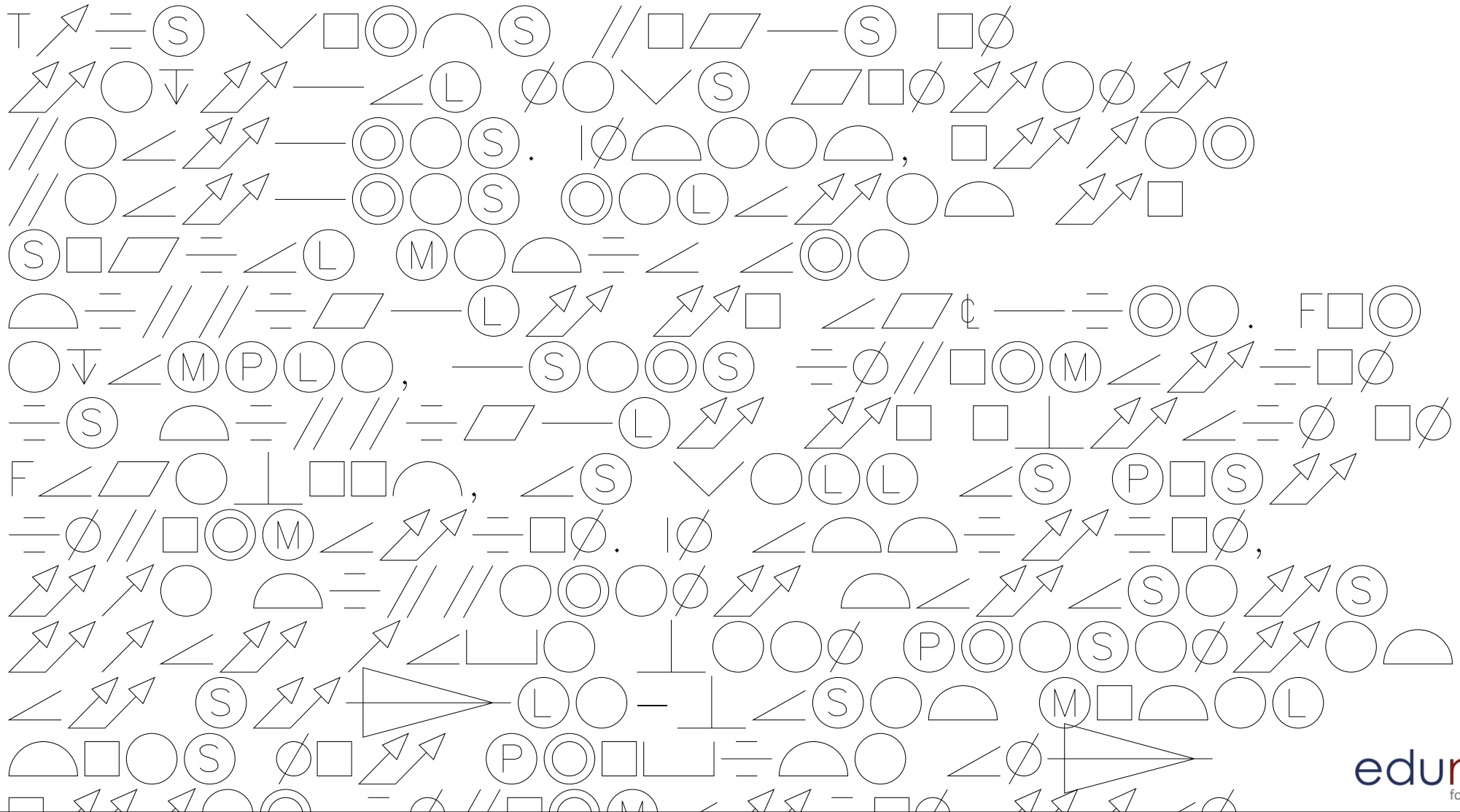
CONCLUSION



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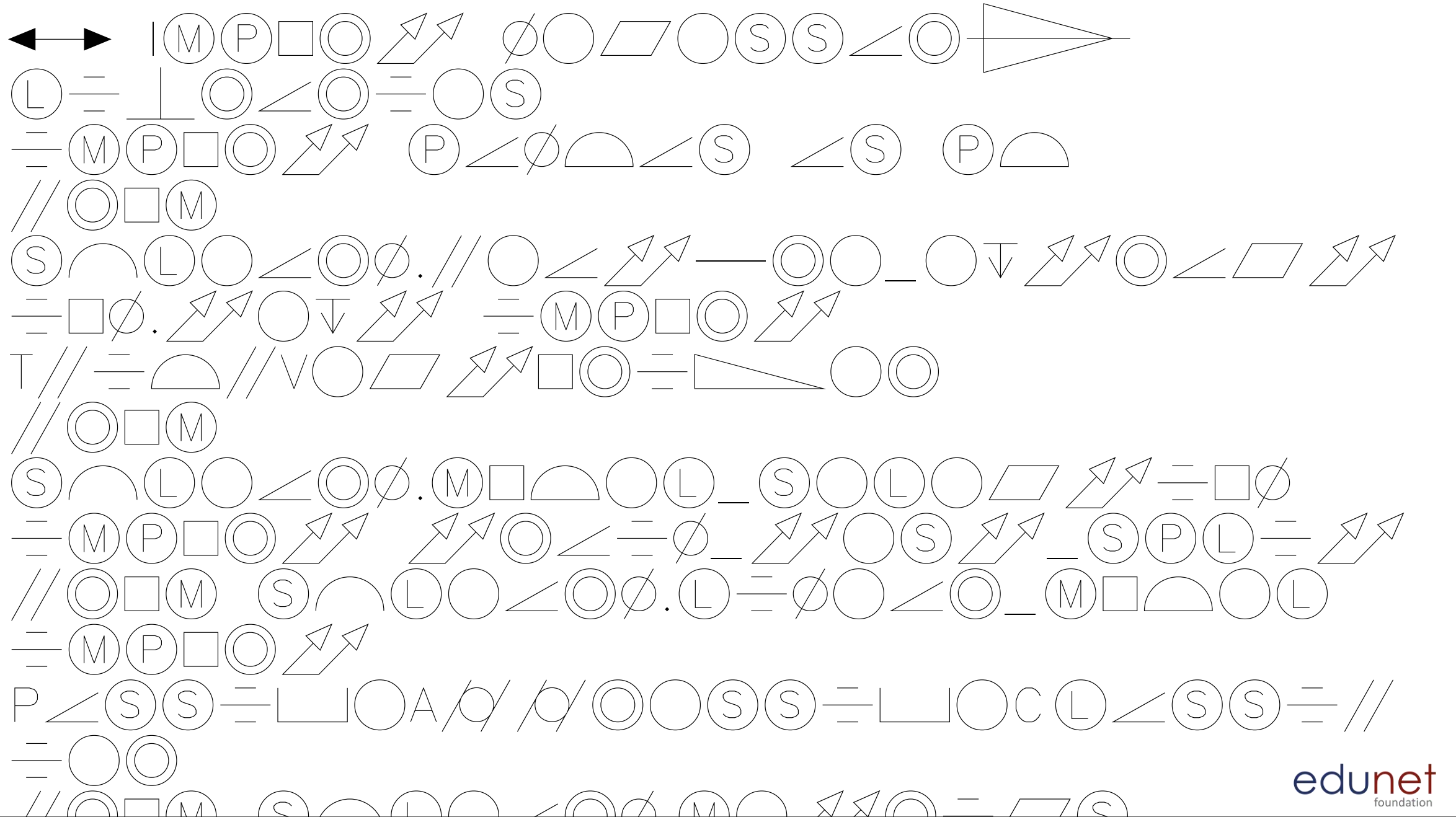

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```
X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.2, random_state=42)
# Initialize TfidfVectorizer
tfidf_vectorizer = TfidfVectorizer(stop_words='english', max_df=0.7)
# Fit and transform the training data
tfidf_train = tfidf_vectorizer.fit_transform(X_train)
# Transform the testing data
tfidf_test = tfidf_vectorizer.transform(X_test)
# Initialize PassiveAggressiveClassifier
pac = PassiveAggressiveClassifier(max_iter=50)
# Train the PassiveAggressiveClassifier
pac.fit(tfidf_train, y_train)
# Predict on the testing data
y_pred = pac.predict(tfidf_test)
# Calculate the accuracy
accuracy = accuracy_score(y_test, y_pred)
print(f'Accuracy: {accuracy}')
```

```
# Example usage
# Replace 'fake_news_article.txt' with the path to your fake news article
fake_news_article = ["Your fake news article here"]
fake_news_article_tfidf = tfidf_vectorizer.transform(fake_news_article)
prediction = pac.predict(fake_news_article_tfidf)
print(f'Prediction: {prediction}')
```

THANK YOU