Comparative Analysis on Research Topic Classification Using ML And DL Approach

# Introduction

* Background on research topic classification? Importance of the topic?
* What’s text classification? And how research classification can be used on industries?
* Research gaps? And research questions?
* Contributions?

# Related Works

* Summary of previous research works?
* Citation of 5 multiclass topic classification papers?
* Citation of research topic classification?
* Sum up the results and lacking of previous works?

# Methodology

* Overall framework of research figure and discuss the overall process?

## Data collection and annotation

## Data preprocessing

## Feature extraction techniques

### TF-IDF vectorizer

### Word embedding

## Model training parameters

## Evaluation Metrics

# Result Analysis

## Results of baseline models

## Results of DL model

## Results of combined DL model

# Discussion

# Conclusion

# Reference