* **Title**(A suitable title for the project that befits a research paper)

Sentiment Analysis of Movie Review in Text Data

* **Authors**(Team members in order of contributions, or alphabetical order if equal contributions, along with affiliations i.e. dept. & university - any other affiliation is optional e.g. your workplace. Please do not include people outside this course as authors, they can be listed in acknowledgements)
* **Abstract**(A short paragraph summarizing the content of the project & paper)

Abstract- This paper presents a hand-on implement practice in studying of technologies based on different techniques using in text mining model. In a given data set, this project successfully created a predicting and analyzing model to give suggestion based on the text review. In this work we will follow steps by steps from the beginning of preprocess data such as data collection, preprocessing, extraction, choosing model still the evaluation of the result. This project included the explanations of processes and code implementation using python langue and other library. At the end we will use this model to give suggestions to user.

* **Keywords**(Any 3 to 6 relevant terms, highlighting the work e.g. Web Mining, Big Data, Polarity Classification, Descriptive Data Mining, Topic Modeling, Sequential Patterns etc.)

Keywords- Data mining, Predictive Analytics, TF-IDF (Term Frequency-Inverse Document Frequency)

* **Sections with numbering (titles somewhat similar to those listed below, include subsections if needed)**
  1. **Introduction**(Background, problem definition & goals, brief overview of data)

Sentiment analysis, sometimes called as opinion mining is a very popular method in text mining. It is widely used for analyzing the emotional tone of human expression in a piece of text. Such textual data can be given from many sources such as social media posts, reviews, news, articles… Themain goal of project is to determining the sentiment expressed in a given piece of data text from user reviews. The sentiment is included two many categories: a positive or a negative behind the content of text review. The data set was chosen to train the model is the data set from Rotten Tomatoes from Kaggle source. It contains the movie reviews datasets

* 1. **Related Work / Literature Survey**(Short descriptions of at least 3 relevant papers cited in references, this could be after the Introduction or before the Conclusions)
  2. **Approach & Implementation / Models & Methods**(Specific techniques used within Descriptive Data Mining / Predictive Data Mining / Text Mining / Big Data Mining etc.)
  3. **Experiments & Observations / Results & Discussions**(Data description, execution with suitable inferences as applicable to your data & domain)
  4. **Conclusions / Roadmap**(Short paragraph summarizing the outcomes of your work, with or without bullets, include future work if applicable)
* **Acknowledgments**(Enter funding sources if any, include people you may have approached for help with software, data, testing etc. If this is joint work, mention advisors, professors from other courses, collaborators etc. In case none of this applies to you, this section can be omitted)
* **References**(Cite the papers you have referred to, i.e. at least 3 papers from your literature search, cite the textbook itself, any other books/reference materials, software used in development etc. This section cannot be blank. At least 5 references are needed in a research paper, including books & software)