K. S. INSTITUTE OF TECHNOLOGY, BANGALORE-560109
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
PROJECT PHASE 1 + SEMINAR (15CSP78)

PROJECT SYNOPSIS OF 7ᵀᴴ SEM A & B SEC 2019-20 (Odd Sem)

PROJECT TITLE: Stock Market Prediction using Artificial Intelligence

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ABSTRACT

"**Data**" surpassed "**Oil**" as the most valuable resource in the world. We are living in an age where the value of "data" is more than any other resource. As such, the world economy is in one way or another linked to the data that is being produced.

The world economy runs on the basis of the stock market. The stock market is intertwined with the current affairs and the news. For instance, the news of VG Siddhartha's demise, founder of Cafe Coffee Day(CCD), affected the share prices of CCD as it **dropped by 60%**. This is an example of how news affects the stock market. There are many factors by which the stock trends are affected, one of which is daily news articles.

What is it that we are doing?

What we are doing is to **analyze** the current day-to-day news and see how it impacts the stock market due to the news.

Why?

This will help investors and stock market traders to have an informed decision on what to invest in.

How?

The **first step** is to gather all the historical data from the verified news sources and the day-to-day prices of the stock market.

The **second next step** will be using **Natural Language Processing** to analyze the news and extract the keywords and the sentiment of the sectors and companies affected by the news.

The **third step** will be correlating the data from the extracted keywords from the news to the corresponding days' share prices(using supervised machine learning techniques) and store the resulting correlation in our database.

The **fourth step** will be to analyze the current news and see if there was a similar news in the past that affected the share market.

Finally, we will be predicting how the real-time news will be affecting the stock market prices.

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System Requirements(H/W and S/W)
Minimum Hardware Requirements: **CPU**: Intel Core i3 4th Gen **RAM**: 4gb(minimum) **STORAGE**: 200MB **Software Requirements:** **Tools**: Python / Pip **OS**: Windows / Linux **Libraries**: Spacy, NLTK, Vader

Base Paper Submitted: (Yes/No)

Research on hot news classification algorithm based on deep learning

Zaiying Wang, Bohao Song

2019 IEEE 3rd Information Technology,Networking,Electronic and Automation Control Conference (ITNEC 2019)

Note: Not For Student Use

ACCEPTED	REJECTED	RE-SUBMIT
Reason for Rejection:		
Reason for Re Submit:		

Project Coordinator   **HOD**