IDEATION PHASE

LITERATURE SURVEY

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Team ID	PNT2022TMID31941
Project Name	News Tracker Application

Literature Survey:

(1)News Keyword Extraction for Topic Tracking

This paper presents a keyword extraction technique that can be used for tracking topicsover time. In our work, keywords are a set of significant words in an article that gives high-level description of its contents to readers. Identifying keywords from a large amount of on-line news data is very useful in that it can produce a short summary of news articles. As on-line text documents rapidly increase in size with the growth of WWW, keyword extraction has become a basis of several text mining applications such as search engine, text categorization, summarization, and topic detection. Manual keyword extraction is an extremely difficult and time consuming task; in fact, it is almostimpossible to extract keywords manually in case of news articles published in a single day due to their volume. For a rapid use of keywords, we need to establish an automated process that extracts keywords from news articles. We propose an unsupervised keyword extraction technique that includes several variants of the conventional TF-IDF model with reasonable heuristics.

(2) Breaking News Detection and Tracking in Twitter

Twitter has been used as one of the communication channels for spreading breaking news. We propose a method to collect, group, rank and track breaking news in Twitter. Since short length messages make similarity comparison difficult, we boost scores on proper nouns to improve the grouping results. Each group is ranked based on popularityand reliability factors. Current detection method is limited to facts part of messages. Wedeveloped an application called “Hotstream” based on the proposed method. Users candiscover breaking news from the Twitter timeline. Each story is provided with the information of message originator, story development and activity chart. This provides aconvenient way for people to follow breaking news and stay informed with real-time updates.

(3)Using Cloud Computing Capabilities On The Example Of Implementing A News Application-Function

The possibilities of cloud computing technologies are considered on the example of the application implementation, which is a function that receives a news feed through the NewsApi service. The cloud computing model FaaS (Function as a Service), the Microsoft Azure cloud platform and the Azure Functions solution are used for implementation.

(4)Explaining the News Feed Algorithm: An Analysis of the "News Feed FYI" Blog

Facebook uses algorithmic curation---automated selection and ranking of content---to present a personalized News Feed to each user for consumption. However, the News Feed user interface provides little information to help users understand how the ranking algorithm works. We analyzed the company's "News Feed FYI' blog series to better understand the degree to which Facebook employs "how'and "why' explanations of its News Feed algorithm. These types of explanations have been used in other recommendation and intelligent systems as a means of promoting user understanding and acceptance. Our findings show that the "News Feed" FYI' blog posts focus more on explanations that justify why the algorithm works the way it does, and less on explanations that describe how the system works. These findings suggest that the "News Feed" FYI' series would be more helpful for increasing users' confidence in the system, but not improving their trust in the system.

(5)Android News App

As world’s technology is rapidly growing we has fast connection and network to instantly connect to other person. Day to day use in mobile, tablets and laptop is increasing, most of the people already have this facilities. In this fast and information oriented world we need tostay updated with every incidents and news too. This News app is android mobile application where user have access to latest news from 120+ newspapers from 50+ countries. The main focus of this application is to connect news articles from all around the world and deliver it to user as fast as possible in best visualize way.

(6)Self-Hosted Kubernetes: Deploying Docker Containers Locally With Minikube

Containerization is a cutting-edge DevOps technology which unifies the IT operations and Development domains. In recent times, virtualization using Virtual Machines has become an overkill for its large overhead on systems. As a lightweight alternative, containerization offers containers that constitute a package of an application along withall its dependencies that is required for it to execute. Containerization platforms help in

building containers from images. Docker is a widely popular containerization platform. Containerization Orchestration tools manage these containers. Kubernetes is the front- runner of the emerging market of container orchestration tools. These software work together seamlessly in order to successfully implement containerization both locally andon the cloud. In this paper, we aim to deploy the container orchestration tool Kubernetes on a local system with a Docker sample container. The purpose of this is to ensure that all the configurations and management needed for a Docker container is setsuccessfully on the local system before it is deployed onto the cloud or on the premise. The on-premise deployment use case is very important in domains such as finance and healthcare where organizations hesitate to upload confidential information on to the cloud for security reasons but still require scaling of their applications

Reference:

- **News Keyword Extraction for Topic Tracking** (https://ieeexplore.ieee.org/document/4624203)
- **Breaking News Detection and Tracking in Twitter** (https://ieeexplore.ieee.org/abstract/document/5616930)
- **Learning approaches for detecting and tracking news events** (https://ieeexplore.ieee.org/abstract/document/784083)
- **USING CLOUD COMPUTING CAPABILITIES ON THE EXAMPLE OF IMPLEMENTING A NEWS APPLICATION-FUNCTION** (https://elib.psu.by/handle/123456789/31517)
- **Explaining the News Feed Algorithm: An Analysis of the "News Feed FYI" Blog** (https://dl.acm.org/doi/abs/10.1145/3027063.3053114)
- **Android News App** (https://www.ripublication.com/ijaer18/ijaerv13n11_78.pdf)
- **SELF-HOSTED KUBERNETES: DEPLOYING DOCKER CONTAINERS LOCALLY WITH MINIKUBE** (https://ieeexplore.ieee.org/abstract/document/9170208)
- **Research on Topic Detection and Tracking for Online News Texts** (https://ieeexplore.ieee.org/document/8703401)
- **A Cloud-based Framework for COVID-19 Media Classification, Information Extraction, and Trends Analysis** (https://ieeexplore.ieee.org/document/9658709)
- **A real-time news personalized push notifier using topic modeling and social scoring for enhanced reader engagement** (https://ieeexplore.ieee.org/document/7364120)