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| 중간 보고서 |
| 희소행렬 처리를 통한 트윗 분석 프로그램 |
|  |
| **강의 : Capstone 디자인 (001)** |
| **담당 교수 : 안용학, 양효식, 박기호** |
| **팀장 : 16010945 노수민 컴퓨터공학**  **팀원 : 16010573 이아현 컴퓨터공학**  **16011041 홍주희 컴퓨터공학**  **16011189 양승주 디지털콘텐츠** |

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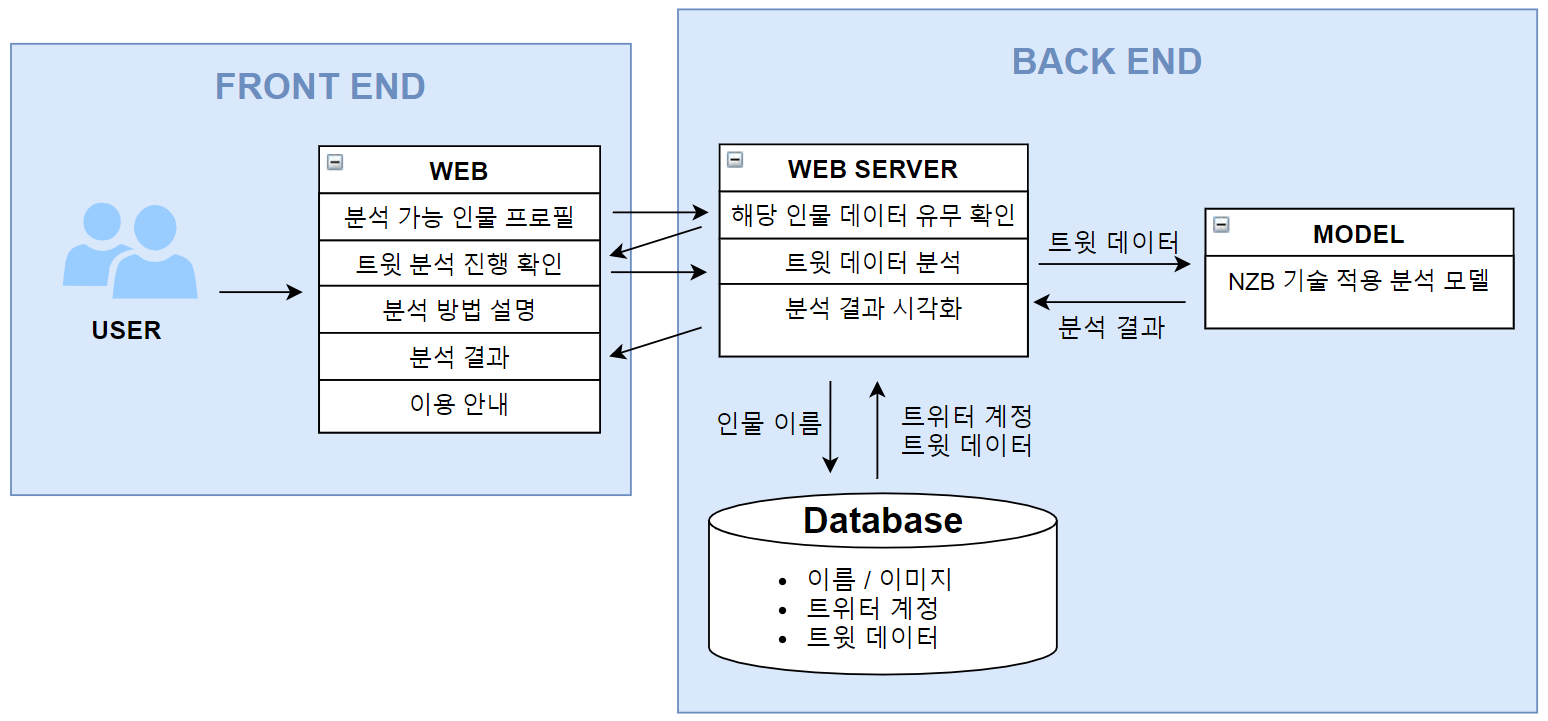
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1. 개요
   1. 개발 동기

기존의 convolution 연산이 이뤄지는 모델의 연산 부분을 수정해 기존 모델과 성능 비교가 가능한 프로그램을 조사했다. 실시간 반영이 가능한 트위터를 이용해 사용자의 언어습관을 분석하기로 했다. 해당 사용자가 평상시에 어떤 감성의 문장을 사용하는지, 어떤 단어를 자주 사용하는지 분석해주는 프로그램을 개발한다.

* 1. 목표
* 기존 모델의 convolution 연산 방식을 NZB 인덱싱 기법을 적용해 메모리 접근효율을 증가시킨다.
* 트위터 API를 통해 유명인의 트윗 데이터를 수집하고, 게시글 속 문장의 감성을 분석하여 긍정, 중립, 부정 3가지의 감성으로 분류해 문장의 비율과 해당 문장을 보여주며, 자주 사용하는 단어를 시각화 한다.
* 웹 기반으로 누구나 접근이 가능하며, 쉬운 UI 구성으로 사용하기 편하고, 오락성과 정보성을 동시에 포함하는 프로그램을 개발한다.

1. 시스템 구조
   1. 전체 시스템 구조
   2. subsystem 설명
      1. 웹

* ABOUT 에서 분석 알고리즘 확인, CONTACT 에서 개발자에게 연락 가능하다.
* 분석 가능한 인물의 프로필을 확인 후, 트위터 분석을 요청할 수 있다.
  + 1. 웹 서버

1. node.js 서버

* 사용자가 웹에서 분석 요청한 인물의 데이터가 존재하는지 데이터베이스에서 확인을 한다.
* 분석 모델에서 제공받은 분석 결과를 시각화 한다.

1. flask 서버

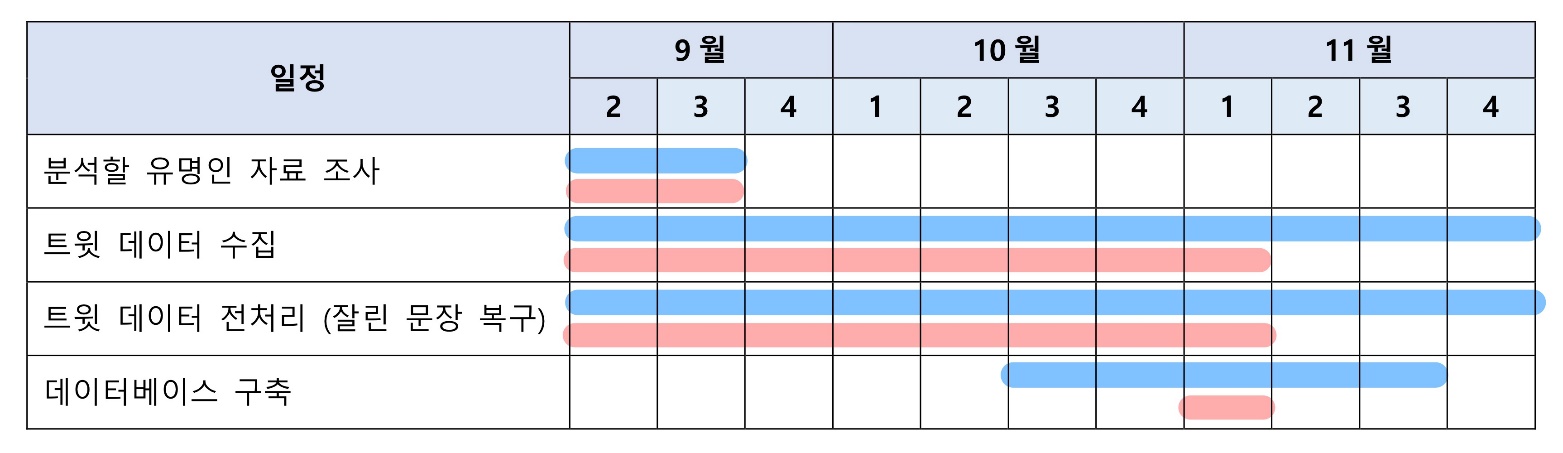
* predict 엔드 포인트로 요청이 들어온 경우 텍스트 문서를 전달받아 전처리 함수와 단어 카운트함수, text-CNN 모델을 수행하는 함수 실행한다.
  + 1. 모델
* text-CNN 모델에 NZB Indexing 기술을 적용해 convolution 연산을 수행한다.
* 긍정/중립/부정 3가지 타입의 결과로 문장의 감성분석을 진행 후, 타입 별 비율을 계산 후, 해당하는 3가지 타입의 문장을 최대 2개까지의 결과를 제공한다.
* 자주 사용하는 단어를 최대 5개까지 제공한다.
  + 1. 데이터베이스
* mongoDB 서버 사용
* 50명의 데이터는 “이름/트위터 계정/이미지/트윗 데이터” 구성으로 저장되어 있다.

1. 팀원 역할 분담

|  |  |
| --- | --- |
| Task 목록 | 진행자 |
| PM 및 문서 작성 | 노수민 |
| 회의록 작성 | 홍주희 |
| PPT 제작 및 대본 초안 작성 | 양승주 |
| 분석 가능한 특정 유명인 조사 | 노수민, 홍주희 |
| 데이터 수집 및 전처리 (잘린 문장 복구) | 노수민, 홍주희 |
| 워드 임베딩 진행 | 양승주 |
| Text-CNN 모델 구현 | 이아현 |
| 학습 데이터 조사 및 수집 | 노수민, 양승주, 이아현, 홍주희 |
| 이모지 데이터셋 제작 | 홍주희 |
| 모델 학습 | 양승주, 이아현(SUB) |
| 분석 데이터 전처리 과정 구현 | 노수민, 홍주희 |
| 문장 감성분석 결과 제공 구현 | 노수민, 홍주희 |
| 자주 사용하는 단어 카운트 구현 | 노수민 |
| 웹 설계 및 웹 서버 구현 | 양승주 |
| NZB 인덱싱 기술 자료 조사 | 이아현 |
| NZB 인덱싱 기술 적용 | 노수민, 이아현, 홍주희 |
| 데이터베이스 구축 | 양승주 |
| 모델 평가 및 검증 | 노수민, 이아현, 홍주희 |
| 분석 결과 시각화 | 양승주 |

1. 제안서 수정 내용
   1. 요구사항 수정 내역

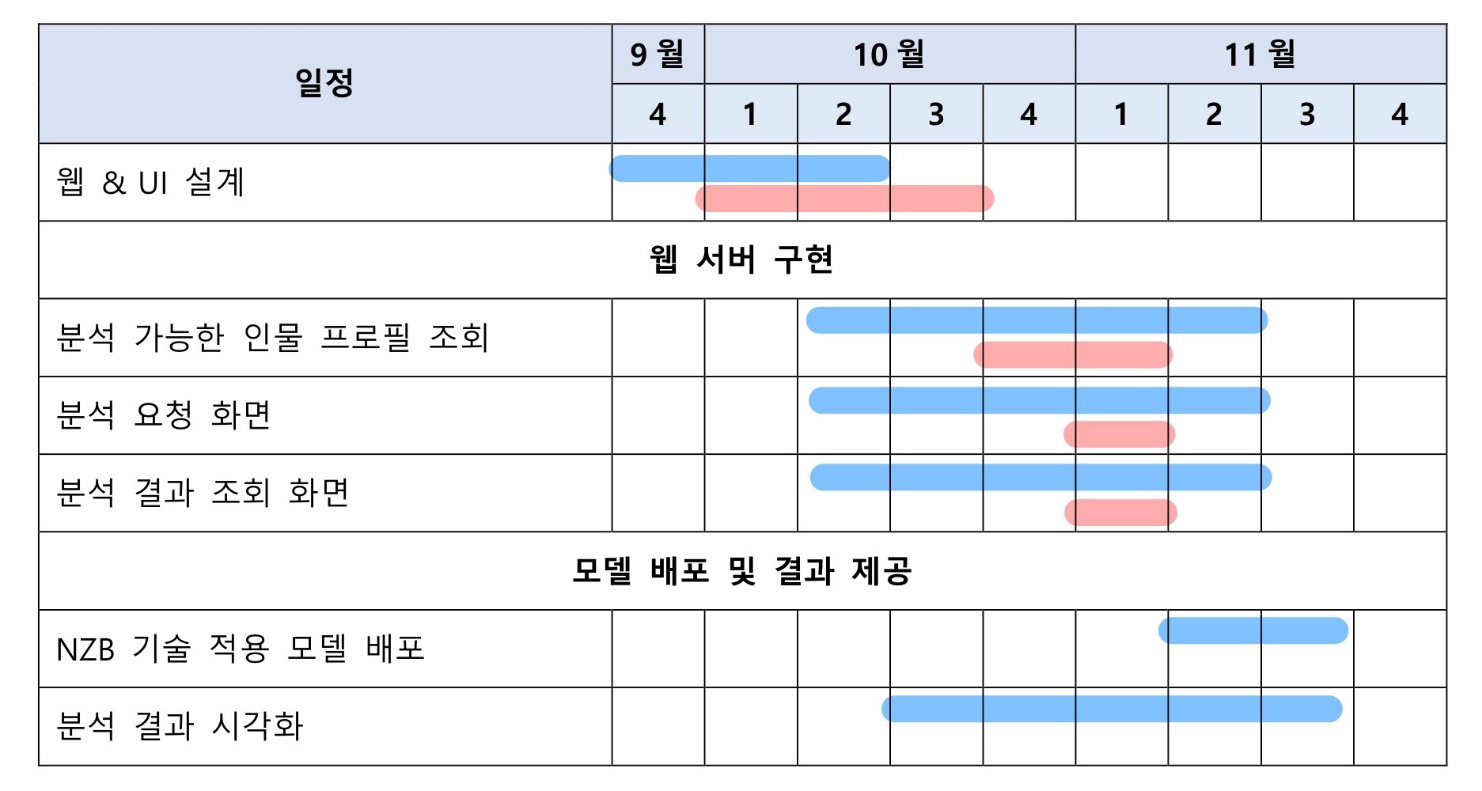
|  |  |
| --- | --- |
| 이전 제안서 요구사항 | 수정된 제안서 요구사항 |
| 사용자의 언어습관을 분석한다. | 사용자의 트윗 게시글의 감성분석을 한다. |
| 긍정, 부정 단어의 비율 차이를 계산해 5가지 유형으로 결과를 제공한다. | 긍정, 중립, 부정 문장의 비율을 제공 후, 해당 감성의 문장을 예시로 최대 2개 제공한다. |
| 긍정적, 부정적 단어의 비율을 그래프로 시각화 한다. | 긍정, 중립, 부정 문장의 비율을 막대 그래프로 시각화 한다. |
| word2vec 모델을 사용한다. | 랜덤하게 단어 임베딩을 진행해, text-CNN 모델을 사용한다. |
| pytorch 프레임워크를 사용한다. | Keras 프레임워크를 사용한다. |
| 실시간 트위터 분석으로 진행한다. | 트위터 API 라이선스 문제로 유명인 50명을 선정 후, 데이터를 직접 수집한다. |
| Frontend에 React를 사용해 개발한다. | Frontend에 bootstrap을 이용하여 개발한다. |

1. 개발 추진 계획
   1. 텍스트이(가) 표시된 사진

      자동 생성된 설명데이터베이스 관련 유스케이스

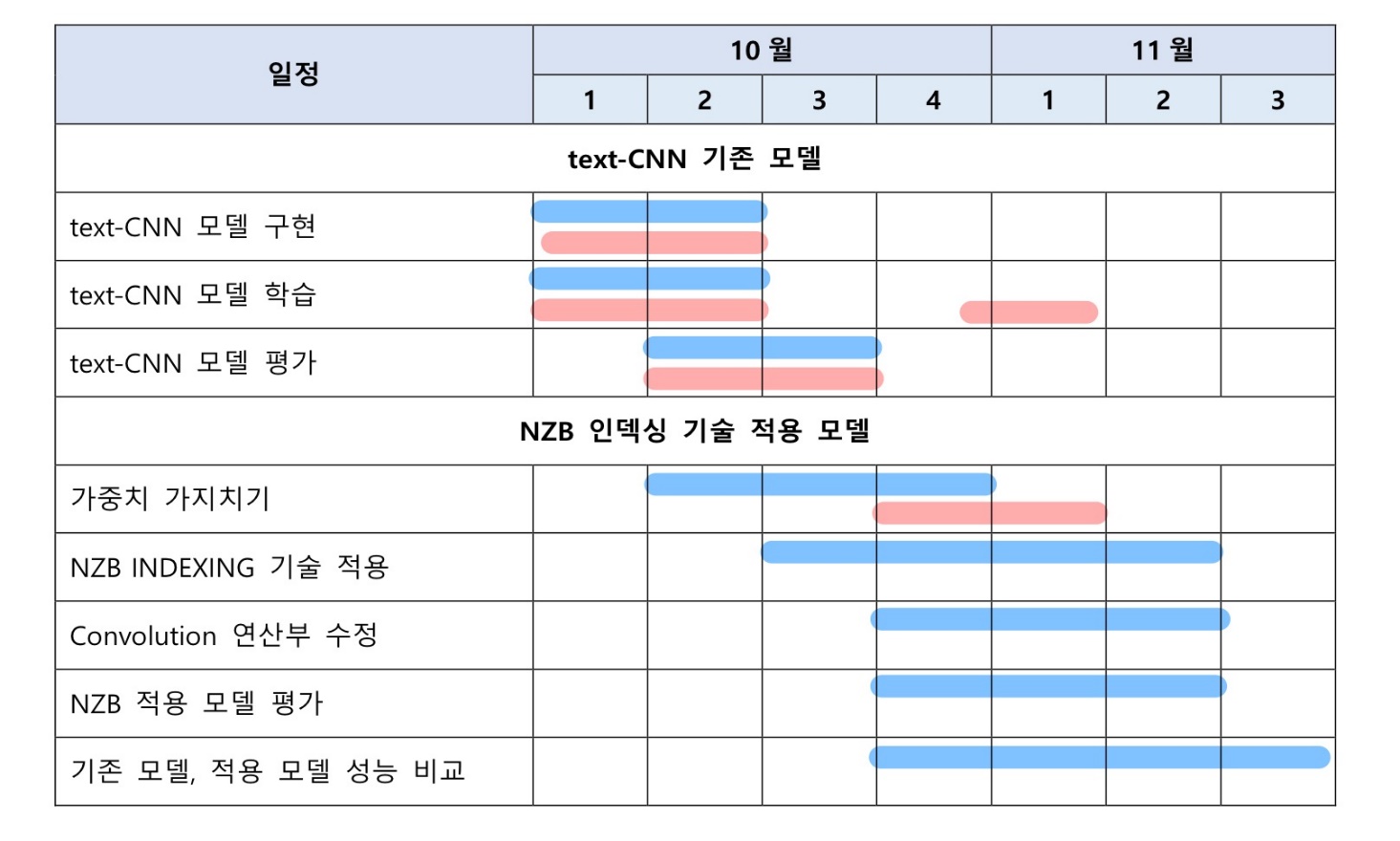
텍스트이(가) 표시된 사진

자동 생성된 설명

* 1. 웹 관련 유스케이스

[웹 서버 구현] **(진행 중)**

분석 결과 조회 화면

* 3가지 각 감성 해당 문장 예시 2개 추출 및 각 감성 비율, 단어 5개 전달하여 결과 페이지에 표시
* mongoDB txt파일 & 타겟 정보 컬렉션 합치기 + txt 파일 접근
  1. 텍스트이(가) 표시된 사진

     자동 생성된 설명모델 관련 유스케이스

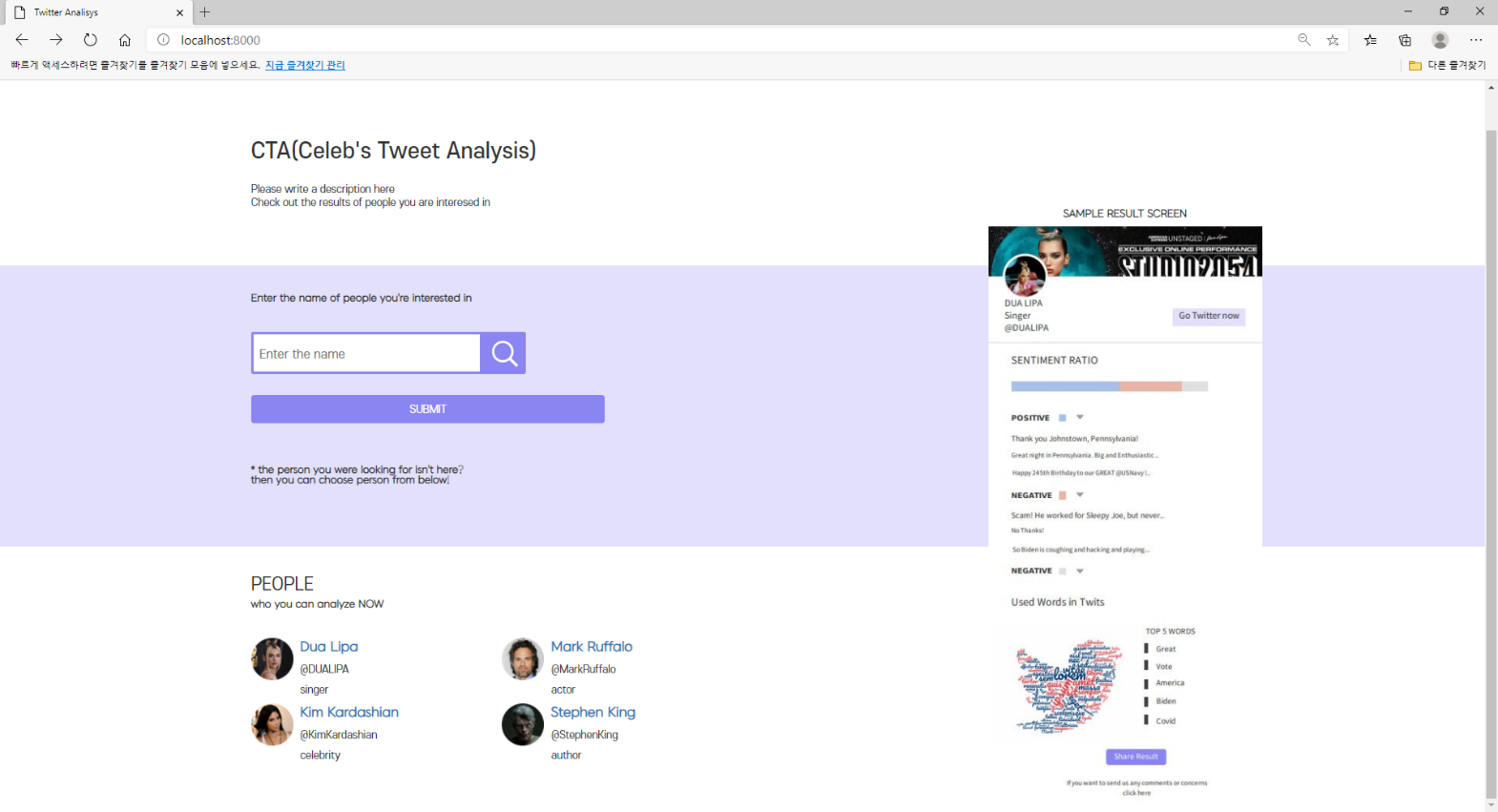
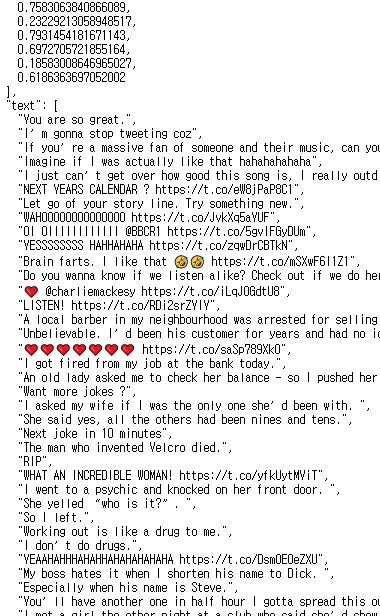
[text-CNN 기존 모델] **(진행 중)**

text-CNN 모델 학습

* Emoji sentiment 학습 데이터 셋 제작 완료 후 학습

[NZB 인덱싱 기술 적용 모델] **(진행 중)**

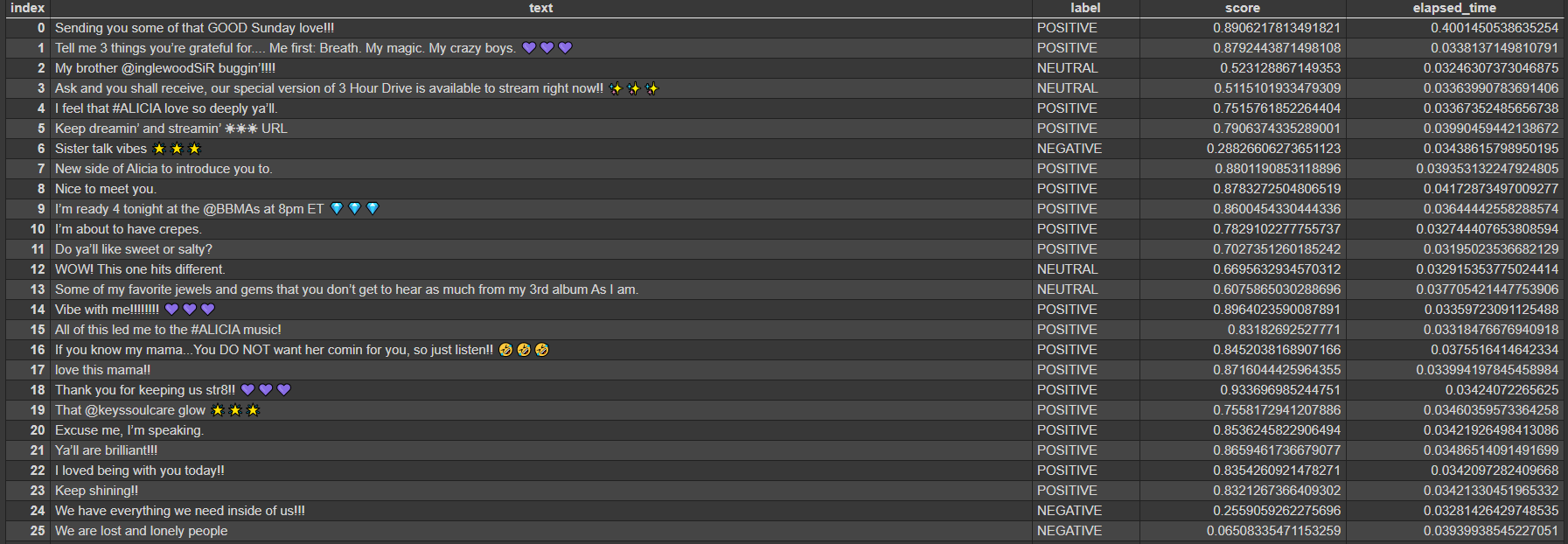
가중치 가지치기

1. 현재 구현 내용
   1. 웹
      1. 분석 가능 인물 프로필 화면
      2. ![테이블이(가) 표시된 사진

         자동 생성된 설명](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDaRXhpZgAATU0AKgAAAAgABAE7AAIAAAAFAAAISodpAAQAAAABAAAIUJydAAEAAAAKAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFVzZXIAAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAMwMgAAkpIAAgAAAAMwMgAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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값 가져오기
   2. 모델
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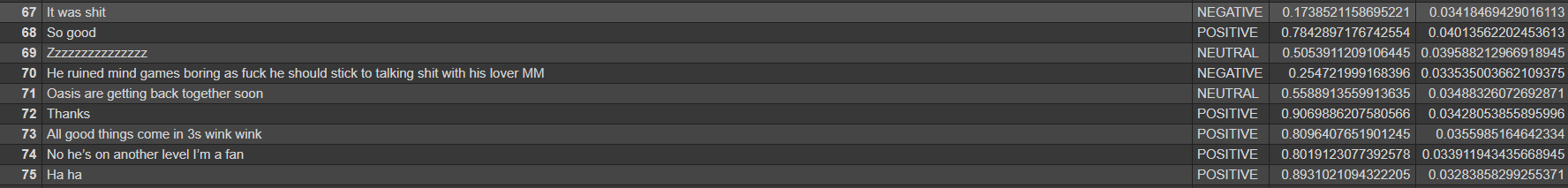
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* 문장의 감성 분석 결과

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