

# 3주차 A조

팀원: 강용진, 조현진, 조선빈

```
lookup.KeyValue  
f.constant(['em  
=tf.constant([0  
ce = tr.lookup.StaticV  
init,  
num_oov_buckets=5)
```

```
lookup.StaticVocabular  
initializer,  
num_oov_buckets,  
lookup_key_dtype=None  
name=None,  
experimental_is_open
```

# LLM Science Exam

: Large Language Model with Transformer

## Competition Intro

	prompt	A	B	C	D	E
0	Which of the following statements accurately d...	MOND is a theory that reduces the observed mis...	MOND is a theory that increases the discrepan...	MOND is a theory that explains the missing bar...	MOND is a theory that eliminates the discrepancy ...	MOND is a theory that eliminates the observed ...
1	Which of the following is an accurate definiti...	Dynamic scaling refers to the evolution of sel...	Dynamic scaling refers to the non-evolution of...	Dynamic scaling refers to the evolution of sel...	Dynamic scaling refers to the non-evolution of...	Dynamic scaling refers to the evolution of sel...
2	Which of the following statements accurately d...	The triskeles symbol was reconstructed as a fe...	The triskeles symbol is a representation of th...	The triskeles symbol is a representation of a ...	The triskeles symbol represents three interloc...	The triskeles symbol is a representation of th...
3	What is the significance of regularization in ...	Regularizing the mass-energy of an electron wi...	Regularizing the mass-energy of an electron wi...	Regularizing the mass-energy of an electron wi...	Regularizing the mass-energy of an electron wi...	Regularizing the mass-energy of an electron wi...
4	Which of the following statements accurately d...	The angular spacing of features in the diffrac...	The angular spacing of features in the diffrac...	The angular spacing of features in the diffrac...	The angular spacing of features in the diffrac...	The angular spacing of features in the diffrac...

[Prompt Enginnering 관련 Notion 정리 자료](#)

### LLM

- Generative AI
- ML Model for NLP

### Embedding

- transform text sentences into vector matrix

### Prompt Engineering

- Question Optimization for Good Response from LLM

### Input

- Question prompt
- Order Prompt
- Role Prompt
- Idea Generation
- Classification

### Context

### Example

# Code Review : Stack

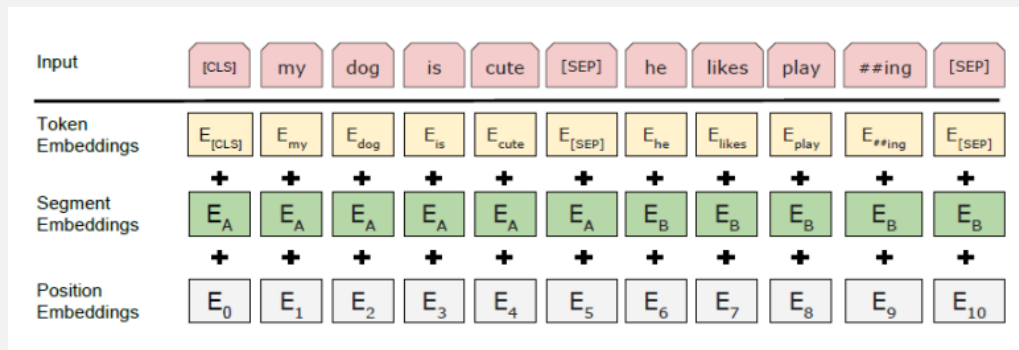
[Code Review : \[0.807\] Sharing my trained-with-context model](#)

## Stack Intro

### Transformer Model

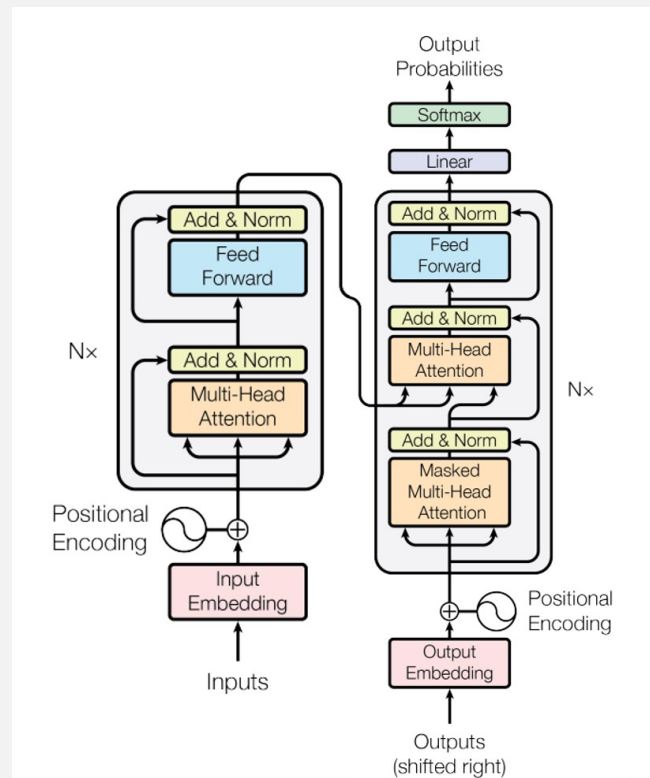
= Encoder + Decoder

- Encoder : Input sequence > 1 vector
- Decoder : vector representation > Output sequence



Token Embeddings : vector representation for certain dimension

Input Sequence : Token + Segment + Position



## Stack Intro

### Sentence Transformers

compare the similarity between sentences

### FAISS

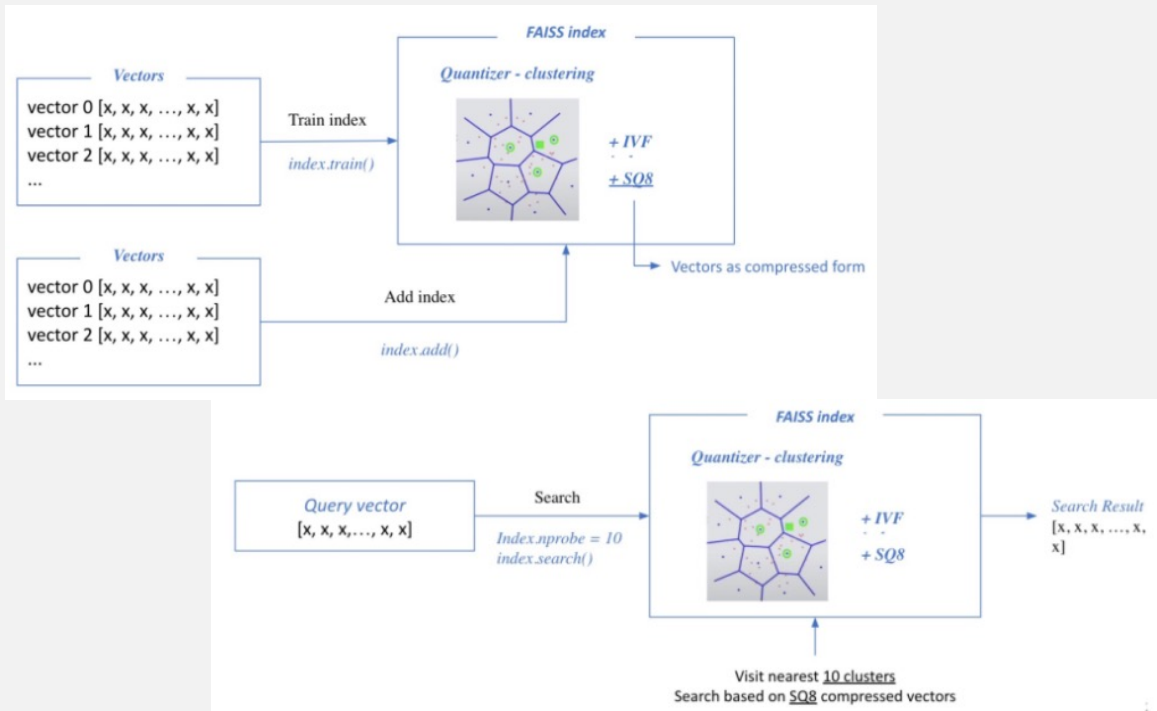
- similarity search library
- Facebook AI

#### 1. Train index & Map vectors

- compression (SQ)
- clustering
- adding SQ8

#### 2. Search based on FAISS index

- query > top-k cluster > search



# Planning

## Planning

23.09.28 : 1차 회의

23.10.01 : 2차 회의





















23.10.02 : 프로토타입 완성 > 추합

23.10.04 : 공통 코드 기반 성능 개선



# Setting a Goal

# Setting a Goal

76	RMZ(Error 404 GPUs not found)	   		0.900	207	9h
77	Ice Spice is all you need 🇺🇸			0.900	18	14h
78	kaggle is few shot learner	    		0.900	246	3h
79	Korogodska D			0.899	56	10h
80	Rihiko			0.899	10	1d
81	Manuel Paz Pinto	 		0.899	178	9h

90%