



Image search như Google với MultiModal Model

Mì AI

BLSTM

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MultiModal Model

Multimodal models are a class of machine learning models that can process and integrate information from **multiple modalities** or types of data. Unlike traditional models that handle a single type of input (e.g., text or image), multimodal models can simultaneously handle and learn from different types of inputs such as text, images, audio, and more. Pretty cool!



Text



Image



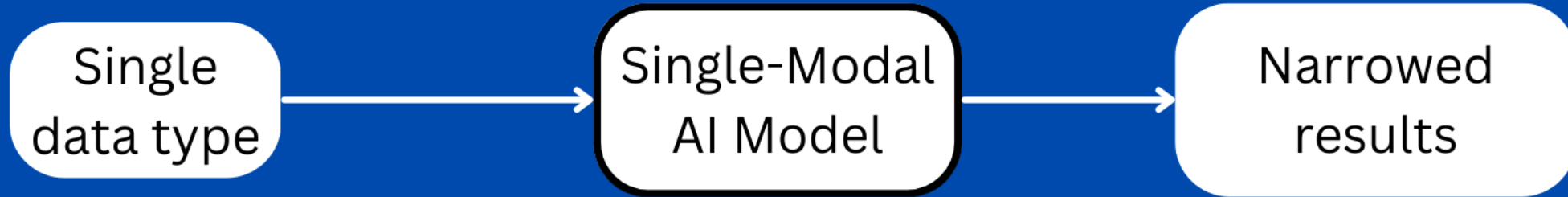
Video



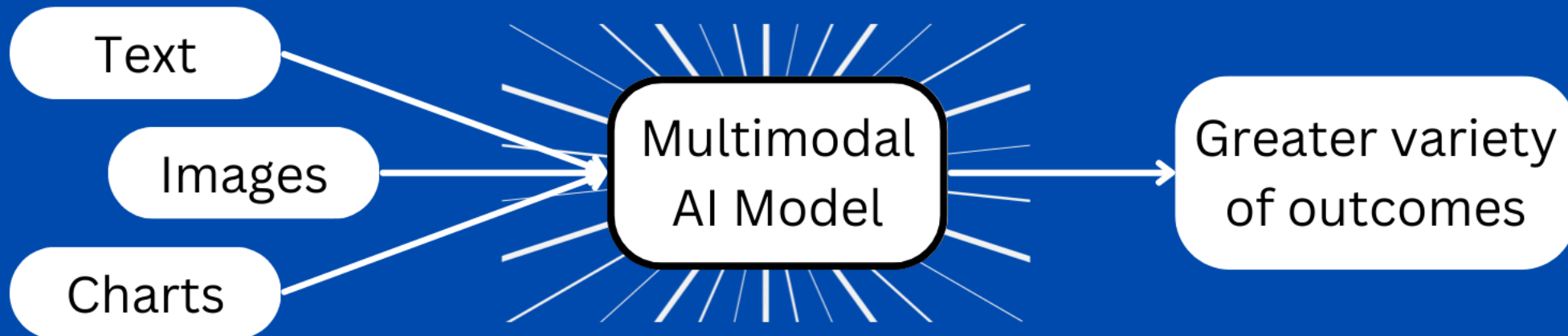
Audio

Figure 1: The different types of data that multimodal models can handle simultaneously.

Single-modal AI Model



Multimodal AI Model?



What is CLIP?

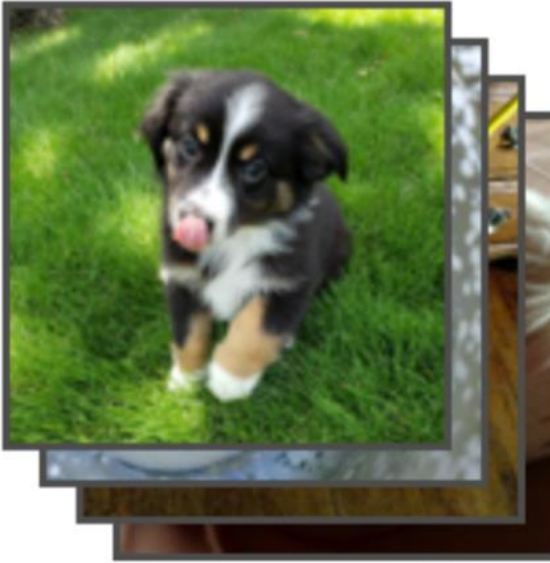
CLIP (Contrastive Language-Image Pre-training) is a multimodal model developed by OpenAI that can understand and relate images and textual descriptions in a unified manner. CLIP was introduced in early 2021 [1] and represents a *significant advancement* in the field of multimodal learning.



“Marqo logo”

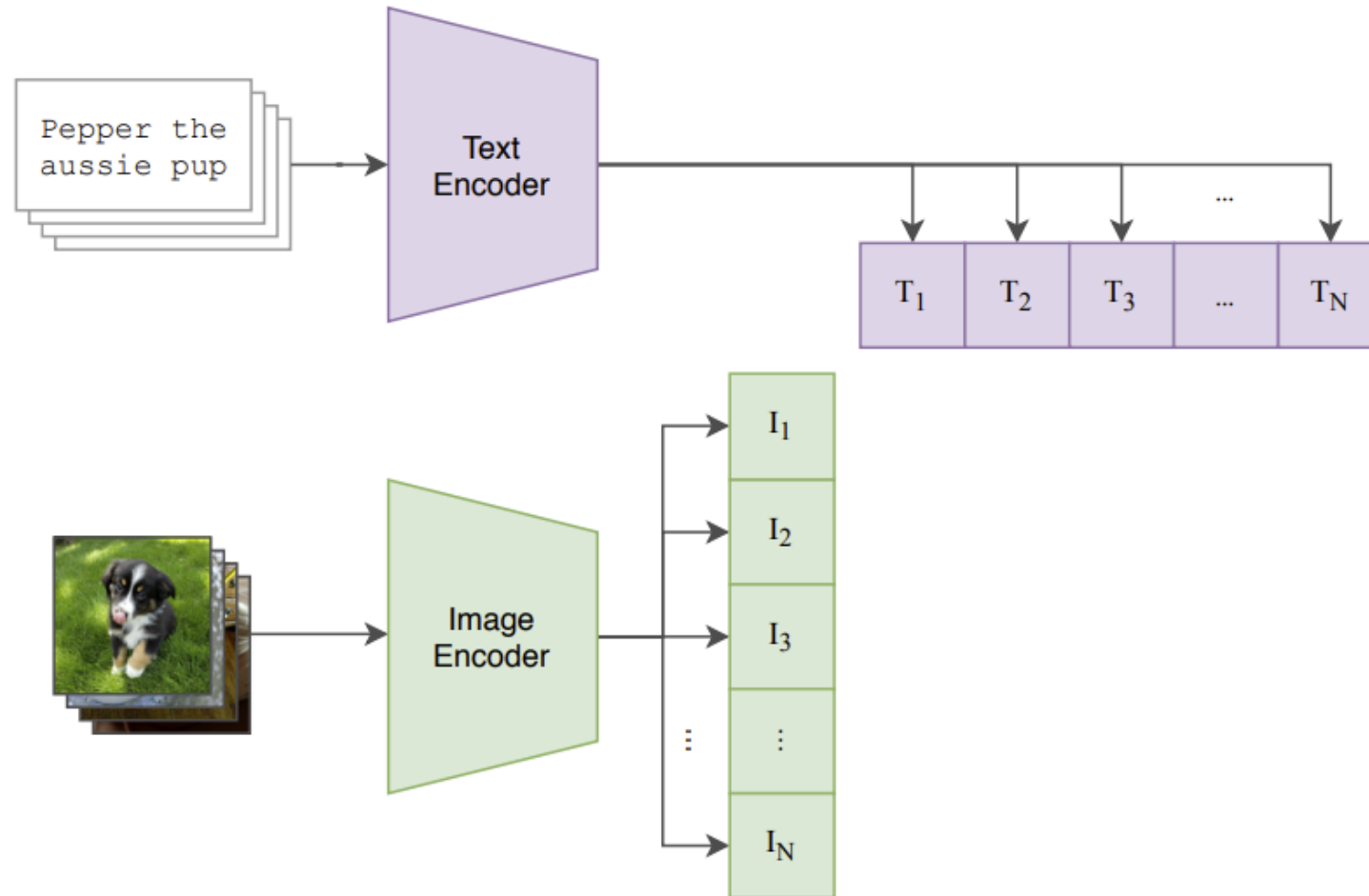
Figure 2: An image with its corresponding caption, 'Marqo logo'.

How to train CLIP?

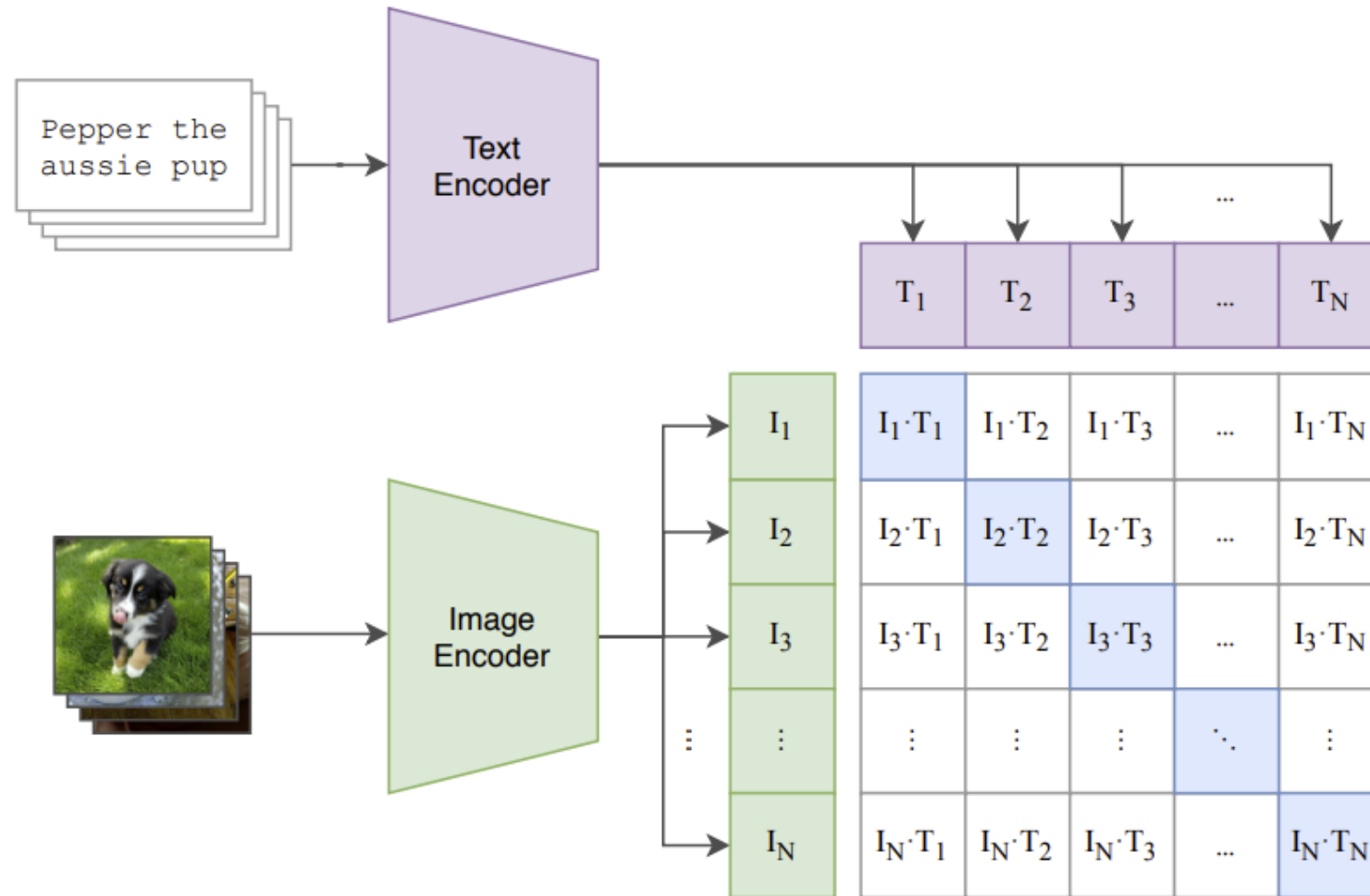


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aussie pup

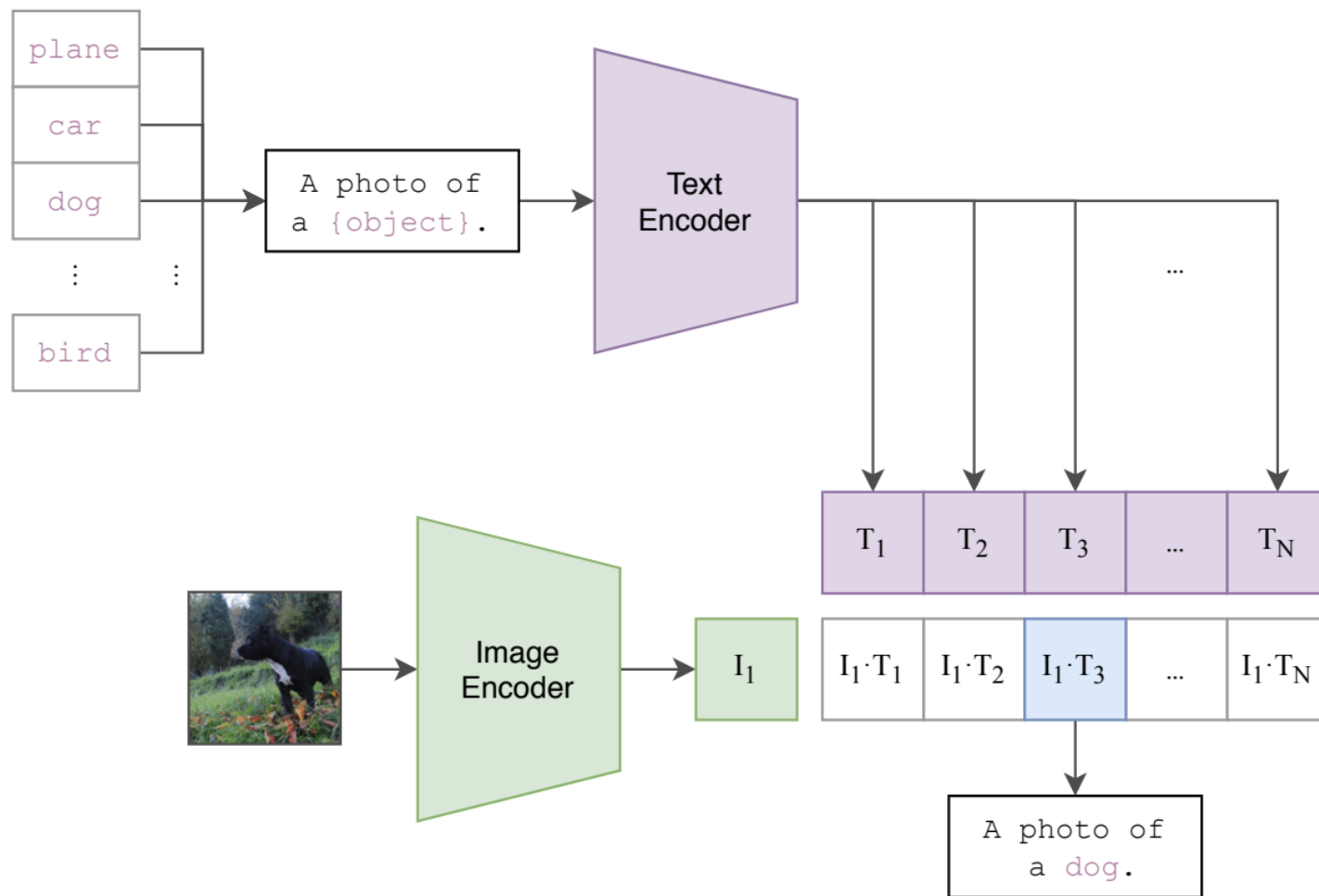
How to train CLIP?



How to train CLIP?



Zero shot Learning



Handson



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536

New Notebook



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Flickr Image dataset

Flickr Image captioning dataset



<https://www.kaggle.com/datasets/hsankesara/flickr-image-dataset?resource=download>