Università degli Studi di Messina, Italia
Dipartimento di scienze matematiche e informatiche,
scienze fisiche e scienze della terra

Soggetto: proposta di tirocinio

ID	PTI_Distefano Salvatore _14/11/2024 15.17.15
Data	14/11/2024 15.17.15

Supervisore del progetto

Cognome	Distefano
Nome	Salvatore
Dipartimento	MIFT
Laboratorio	HPCA
E-mail	sdistefano@unime.it
Numero di telefono	

Co-Supervisore del progetto

Cognome	
Nome	
Posizione	
Dipartimento	

Università degli Studi di Messina, Italia
Dipartimento di scienze matematiche e informatiche,
scienze fisiche e scienze della terra

Laboratorio	
E-mail	
Numero di telefono	

Dettagli del progetto

Titolo	Small and large language models

Descrizione dettagliata: Language models are powerful machine learning models used for natural language processing (NLP) tasks, such as text generation and sentiment analysis. These models represent natural language based on the probability of words or sequences of words occurring in a given context.

Conventional language models have been used in supervised settings for research purposes where the models are trained on well-labeled text datasets for specific tasks. Pre-trained language models offer an accessible way to get started with AI and have become more widely used in recent years. These models are trained on large-scale text corpora from the internet using deep neural networks and can be fine-tuned on smaller datasets for specific tasks.

The size of a language model is determined by its number of parameters, or weights, that determine how the model processes input data and generates output. Parameters are learned during the training process by adjusting the weights within layers of the model to minimize the difference between the model's predictions and the actual data. The more parameters a model has, the more complex and expressive it is, but also the more computationally expensive it is to train and use.

In general, small language models have fewer than 10 billion parameters, and large language models have more than 10 billion parameters.

Durata (mesi – max 12)	<<Durata in mesi>>
Durata (ore)	<<Durata in ore>>

Università degli Studi di Messina, Italia
Dipartimento di scienze matematiche e informatiche,
scienze fisiche e scienze della terra

Numero di posizioni aperte	3

Competenze richieste dal tirocinio

Requisiti tecnici: Programming skills, basics of AI and ML	
Altri requisiti	