AI Usage Card for Deep Learning for Natural Language Processing: Practical Project Part 1

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PROJECT NAME
Deep Learning for Natural Language Processing: Practical Project Part 1

KEY APPLICATION(S)
Natural Language Processing, Deep Learning, Sentiment Analysis, Paraphrase Detection, Semantic Similarity, Paraphrase Generation

MODEL(S)
ChatGPT

DATE(S) USED
2024-07-01

VERSION(S)
ChatGPT 4o

IDEATION

GENERATING IDEAS, OUTLINES, AND WORKFLOWS
Not used

IMPROVING EXISTING IDEAS
Not used

FINDING GAPS OR COMPARE ASPECTS OF IDEAS
Not used

LITERATURE REVIEW

FINDING LITERATURE
Not used

FINDING EXAMPLES FROM KNOWN LITERATURE
Not used

ADDING ADDITIONAL LITERATURE FOR EXISTING STATEMENTS AND FACTS
Not used

COMPARING LITERATURE
Not used

METHODOLOGY

PROPOSING NEW SOLUTIONS TO PROBLEMS
Not used

FINDING ITERATIVE OPTIMIZATIONS
Not used

COMPARING RELATED SOLUTIONS
Not used

EXPERIMENTS	DESIGNING NEW EXPERIMENTS Not used	EDITING EXISTING EXPERIMENTS Run training loop in GPU cluster with different hyperparameters in a streamlined manner.
	FINDING, COMPARING, AND AGGREGATING RESULTS Not used	
WRITING ChatGPT	GENERATING NEW TEXT BASED ON INSTRUCTIONS Not used	ASSISTING IN IMPROVING OWN CONTENT Write repository description and code documentation
	PARAPHRASING RELATED WORK Summarize BERT Hugging Face documentation by explaining how BERT is built. Assist in understanding project description and constraints	
PRESENTATION	GENERATING NEW ARTIFACTS Not used	IMPROVING THE AESTHETICS OF ARTIFACTS Not used
	FINDING RELATIONS BETWEEN OWN OR RELATED ARTIFACTS Not used	
CODING ChatGPT	GENERATING NEW CODE BASED ON DESCRIPTIONS OR EXISTING CODE Generate unit test scripts, as sanity check test the model implementation. Implemented the loss function for fine-tuning on the STS dataset.	REFACTORING AND OPTIMIZING EXISTING CODE Format existing code, improve readability and adding code documentation
	COMPARING ASPECTS OF EXISTING CODE Explain certain parts of code syntax in provided scripts.	
DATA	SUGGESTING NEW SOURCES FOR DATA COLLECTION Not used	CLEANING, NORMALIZING, OR STANDARDIZING DATA Not used
	FINDING RELATIONS BETWEEN DATA AND COLLECTION METHODS Not used	

ETHICS

WHAT ARE THE IMPLICATIONS OF USING AI FOR THIS PROJECT?

Facilitate readability and implementation of deep learning models for NLP tasks

WHAT STEPS ARE WE TAKING TO MITIGATE ERRORS OF AI FOR THIS PROJECT?

Contrast everything with own knowledge on theory and coding practices

WHAT STEPS ARE WE TAKING TO MINIMIZE THE CHANCE OF HARM OR INAPPROPRIATE USE OF AI FOR THIS PROJECT?

Thorough revision on accuracy and correctness of assistance provided by AI

THE CORRESPONDING AUTHORS VERIFY AND AGREE WITH THE MODIFICATIONS OR GENERATIONS OF THEIR USED AI-GENERATED CONTENT

Yes