AI Usage Card for DNLP SS24 Final Project Group 4

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PROJECT NAME
DNLP SS24 Final Project Group 4

KEY APPLICATION(S)
Baseline implementations of BERT (sentiment analysis, question similarity, semantic similarity) and BART (paraphrase type generation and detection).

MODEL(S)
BERT, BART, Elicit.org (ChatGPT), and Github-Copilot

DATE(S) USED
2024-05-08

VERSION(S)
from transformers (huggingface) facebook/bart-large, from transformers (huggingface) BartForConditionalGeneration, from base$_bertBertPreTrainedModel$

IDEATION

GENERATING IDEAS, OUTLINES, AND WORKFLOWS
Not used

IMPROVING EXISTING IDEAS
Not used

FINDING GAPS OR COMPARE ASPECTS OF IDEAS
Not used

LITERATURE REVIEW
BERT, BART, Elicit.org (ChatGPT), and Github-Copilot

FINDING LITERATURE
Provide Elicit.org with a research question or a prompt and you will be given papers that match your question. Elicit.org helps you find relevant papers in your area of interest. Try it!

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
GithubCopilot helps you solve bugs in your code and sometimes comes up with novel ideas that you haven't tried yet.

FINDING ITERATIVE OPTIMIZATIONS
Not used

COMPARING RELATED SOLUTIONS
Not used

EXPERIMENTS
BERT, BART, Elicit.org (ChatGPT), and Github-Copilot

DESIGNING NEW EXPERIMENTS
Not used

EDITING EXISTING EXPERIMENTS
sentiment analysis, question similarity, semantic similarity were the task we mostly implemented ourself using BERT. Using BART we implemented paraphrase type generation and detection tasks.

FINDING, COMPARING, AND AGGREGATING RESULTS
Based on initial results on the baseline models, we compared our improvements to the baseline models.

WRITING

GENERATING NEW TEXT BASED ON INSTRUCTIONS
Not used

ASSISTING IN IMPROVING OWN CONTENT
Not used

	PARAPHRASING RELATED WORK Not used	PUTTING OTHER WORKS IN PERSPECTIVE Not used
PRESENTATION	GENERATING NEW ARTIFACTS Not used	IMPROVING THE AESTHETICS OF ARTIFACTS Not used
	FINDING RELATIONS BETWEEN OWN OR RELATED ARTIFACTS Not used	
CODING BERT, BART, Elicit.org (ChatGPT), and GithubCopilot	GENERATING NEW CODE BASED ON DESCRIPTIONS OR EXISTING CODE GithubCopilot's extension to VsCode can translate pseudo code into machine readable code.	REFACTORING AND OPTIMIZING EXISTING CODE when writing a new lossfunction for the BART paraphrase detection task, I needed an implementation using tensors and not just np.ndarrays.
	COMPARING ASPECTS OF EXISTING CODE Not used	
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? undefined	WHAT STEPS ARE WE TAKING TO MITIGATE ERRORS OF AI FOR THIS PROJECT? The AI written code was always double checked.
	WHAT STEPS ARE WE TAKING TO MINIMIZE THE CHANCE OF HARM OR INAPPROPRIATE USE OF AI FOR THIS PROJECT? So far, we left the github project "private". We may change that in the future after discussing it as a group.	THE CORRESPONDING AUTHORS VERIFY AND AGREE WITH THE MODIFICATIONS OR GENERATIONS OF THEIR USED AI-GENERATED CONTENT Yes