Imperial College London

Department of Mechanical Engineering

ME4 Individual Project Final Report

Small LLMs for educational purposes

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Abstract

Content

Introduction:

Background:

Methodology:

Major difficuly:

Peftmodel module (allowing adding adaptors to modify model) is not inherently supported by torch pipeline nor huggingface pipeline, which makes deployment difficult (need to merge to a new model after testing)

LLM for classification finetuning met difficulty; for same reason the bare minimum case “long long true without further prompting” is not tested

Result

Discussion

Conclusion

AI writing declaration

Llama3 is a decoder only model

Meaning of encoder: generates new meaningful things based on the input

Meaning of decoder: completes the prompt

Comparison between raw/finetuned casual model/finetuned classification model

Citations

Charlies report

Sophias report

Lambda Feedback related