

extract_lengths_gens

December 30, 2025

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[5]: import datasets
import numpy as np
import matplotlib.pyplot as plt
import pathlib
import transformers

[ ]: from datasets.utils.logging import disable_progress_bar
disable_progress_bar()

t = transformers.AutoTokenizer.from_pretrained("HuggingFaceTB/SmollM2-1.7B")

folders = list(pathlib.Path().glob("lambdal*"))
by_folder = {}
for folder in folders:
    parquets = list(folder.glob("**/*.parquet"))
    folder_key = folder.parts[0]
    by_folder[folder_key] = {}

    parquets_and_epochs = [(parquet, int(parquet.parent.parent.name.
        split("_")[-1])) for parquet in parquets]
    parquets_and_epochs.sort(key=lambda x: x[1])

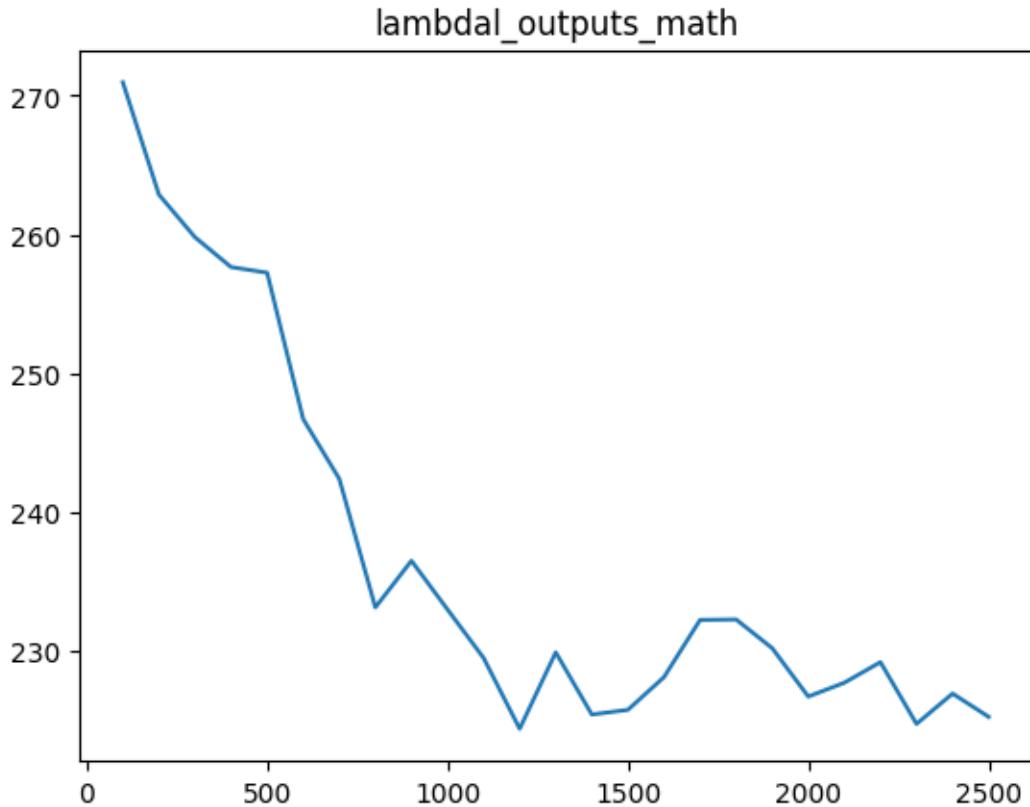
    for parquet, epoch_no in parquets_and_epochs:
        print(parquet, epoch_no)
        array = datasets.load_dataset("parquet", data_files=[str(parquet)])
        a = array["train"].map(lambda x: {"cont_tokens": np.
            eval(x["cont_tokens"]))[0][0].shape[0]}, )
        mean = np.mean(a["cont_tokens"])
        by_folder[folder_key][epoch_no] = mean

plt.plot(by_folder[folder_key].keys(), by_folder[folder_key].values())
plt.title(folder_key)
plt.show()

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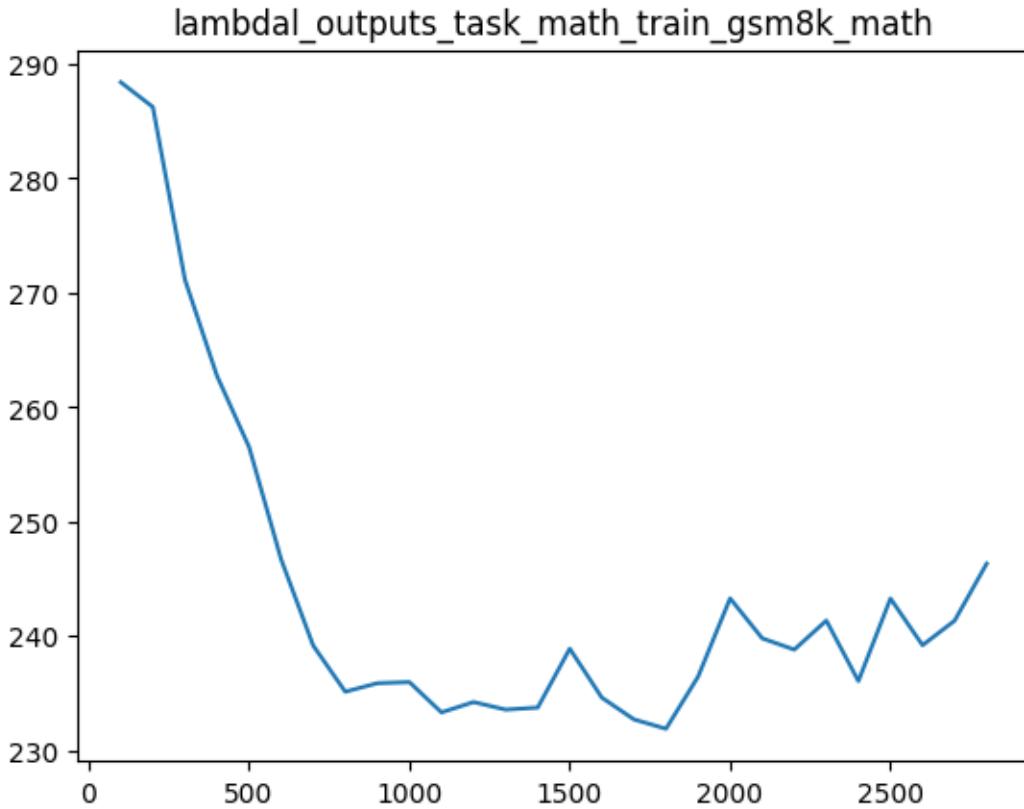
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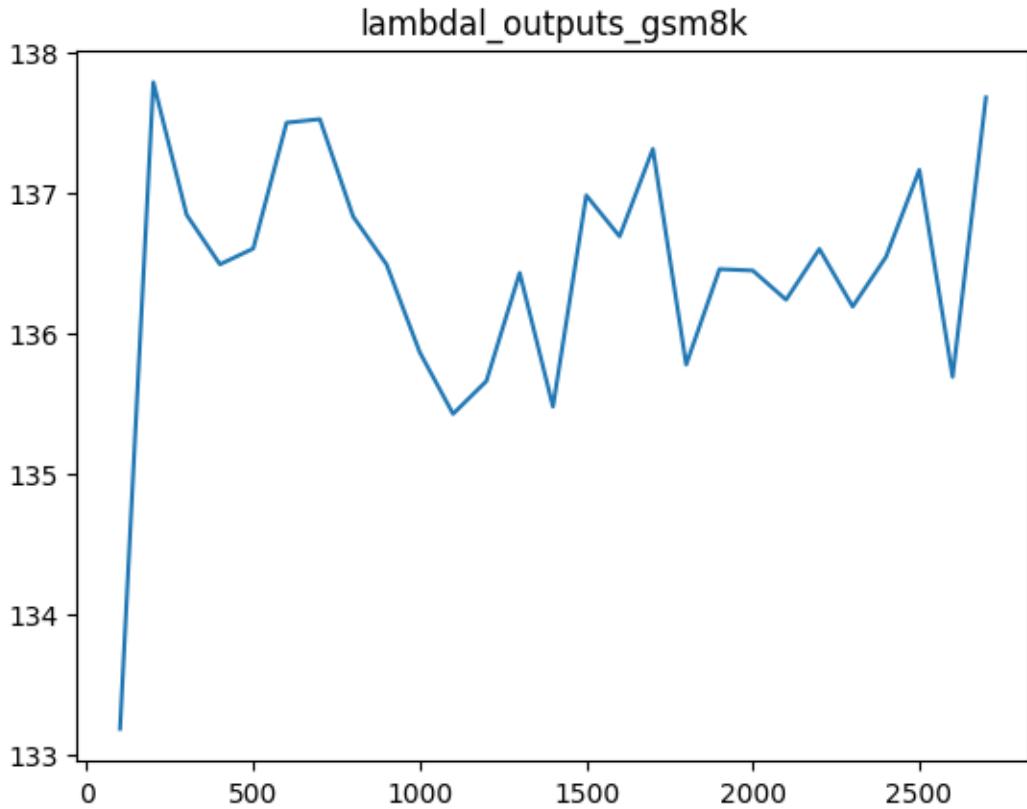
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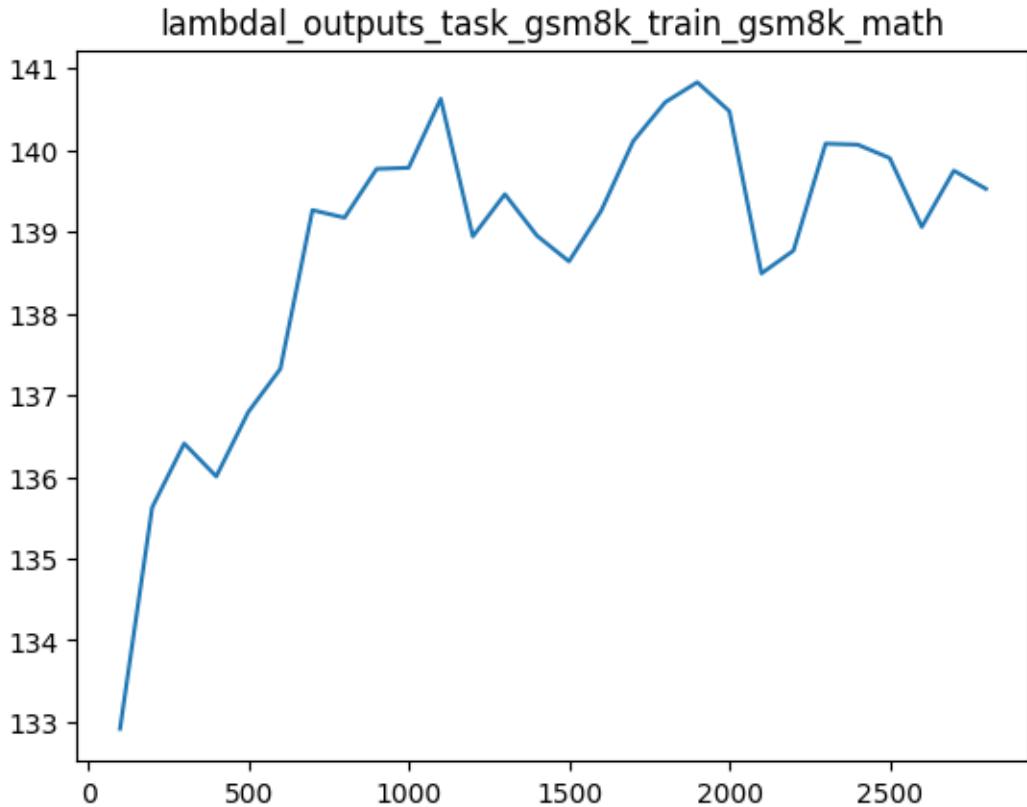
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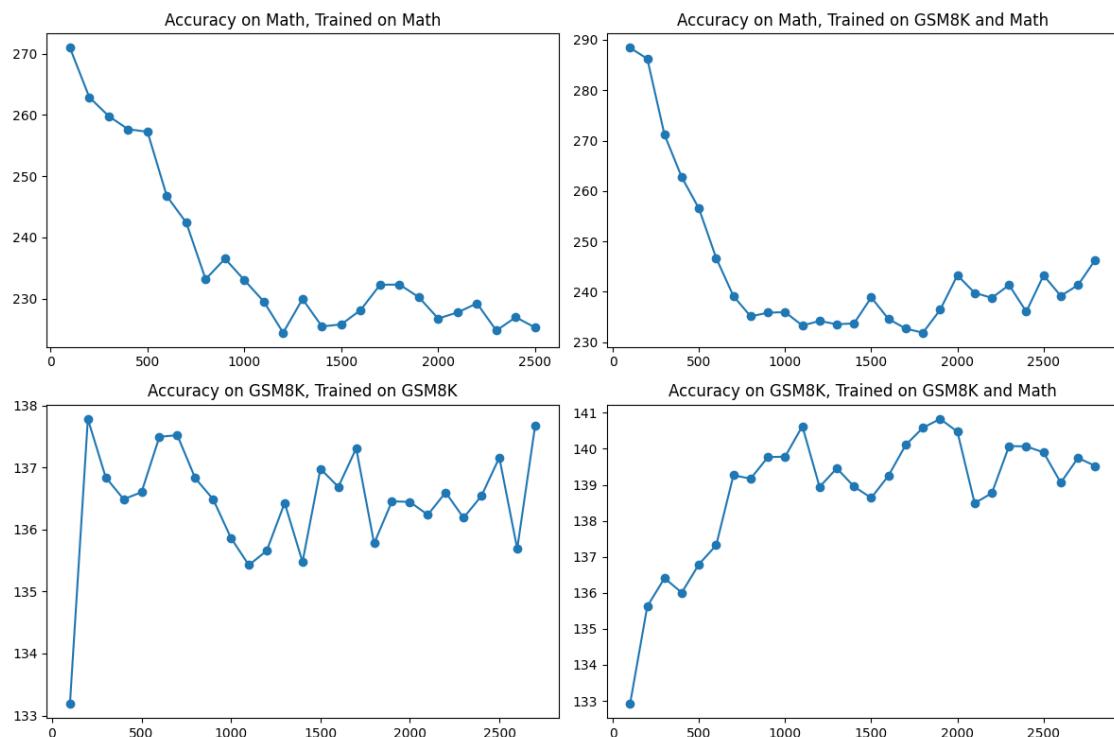
```
[42]: format_ = "Accuracy on {inference_task}, Trained on {training_task}"\n\ntitles = {\n    "lambdal_outputs_gsm8k": format_.format(inference_task="GSM8K",\n                                              training_task="GSM8K"),\n    "lambdal_outputs_math": format_.format(inference_task="Math",\n                                              training_task="Math"),\n    "lambdal_outputs_task_gsm8k_train_gsm8k_math": format_.\n        format(inference_task="GSM8K", training_task="GSM8K and Math"),\n    "lambdal_outputs_task_math_train_gsm8k_math": format_.\n        format(inference_task="Math", training_task="GSM8K and Math"),\n}\n\norder =\n\nfig, axes = plt.subplots(2, 2, figsize=(12, 8))\naxes = axes.flatten()\n\nfor i, folder_key in enumerate(by_folder):\n    title = titles[folder_key]\n    axes[i].set_title(title)\n    axes[i].set(xlabel="Step", ylabel="Accuracy")\n    axes[i].plot(steps, accuracies[folder_key])\n\nplt.show()
```

```

        axes[i].plot(by_folder[folder_key].keys(), by_folder[folder_key].values(), marker='o')
        title = titles[folder_key]
        axes[i].set_title(title)

plt.tight_layout()
plt.show()

```



[]: