

extract_lengths_gens

December 30, 2025

```
[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])

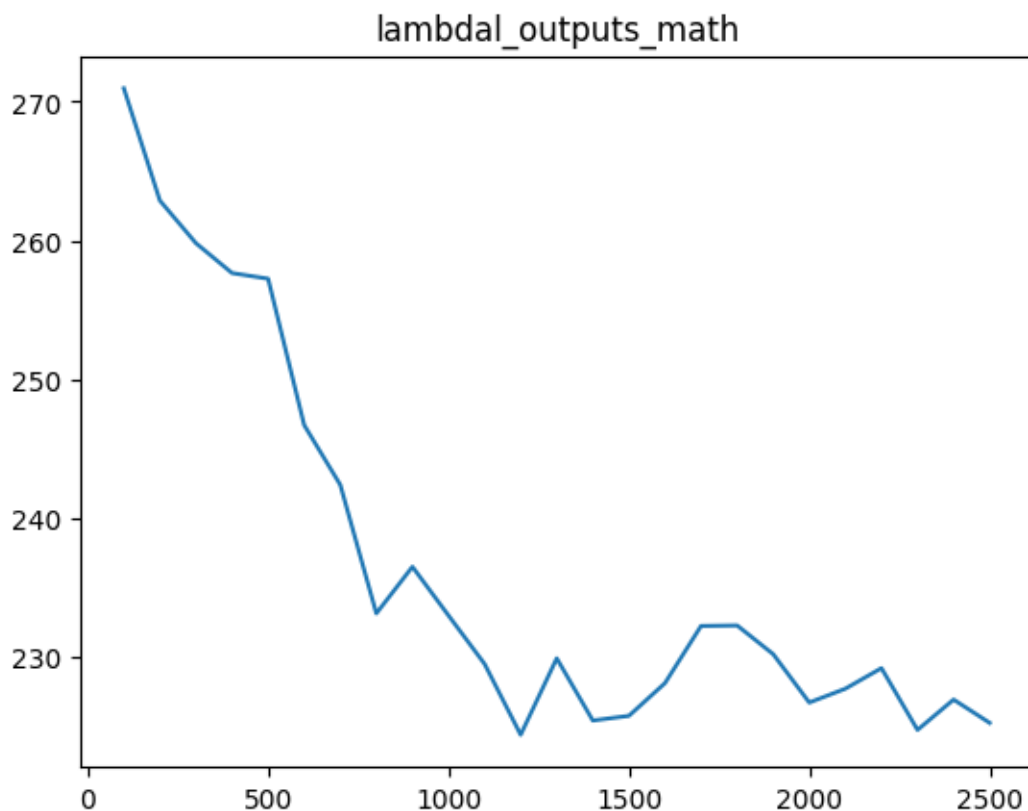
    for parquet, epoch_no in parquets_and_epochs:
        print(parquet, epoch_no)
        array = datasets.load_dataset("parquet", data_files=[str(parquet)])
        a = array["train"].map(lambda x: {"cont_tokens": np.
↪array(eval(x["cont_tokens"]))[0][0].shape[0]}, )
        mean = np.mean(a["cont_tokens"])
        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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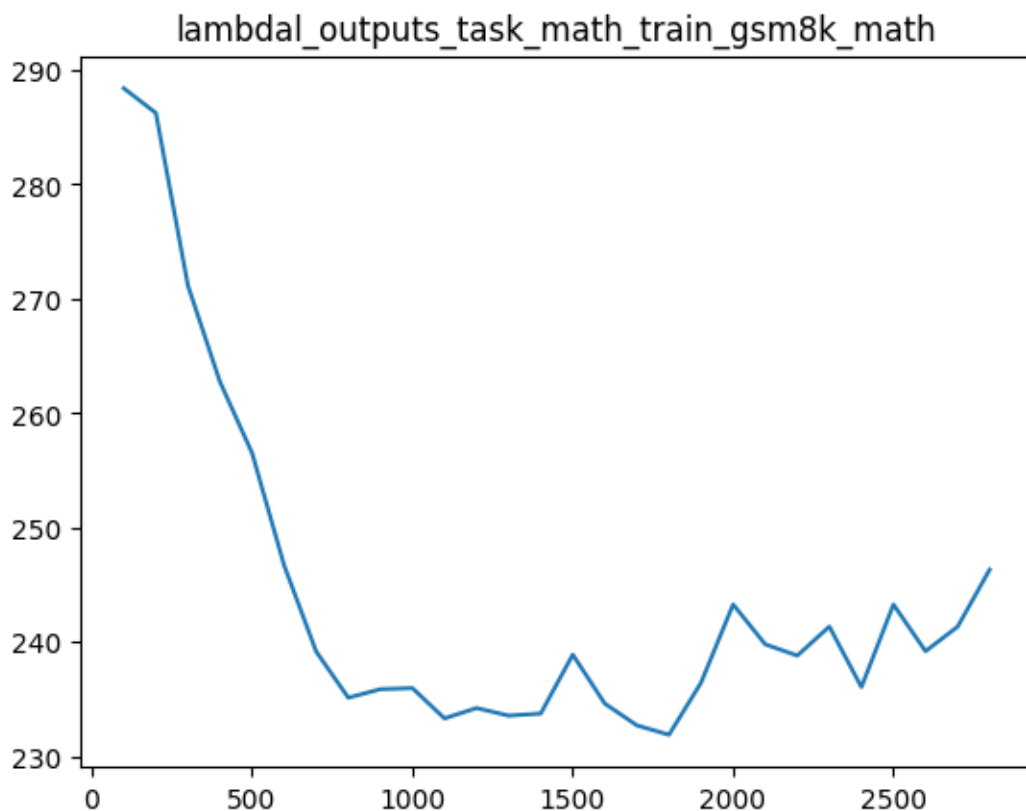
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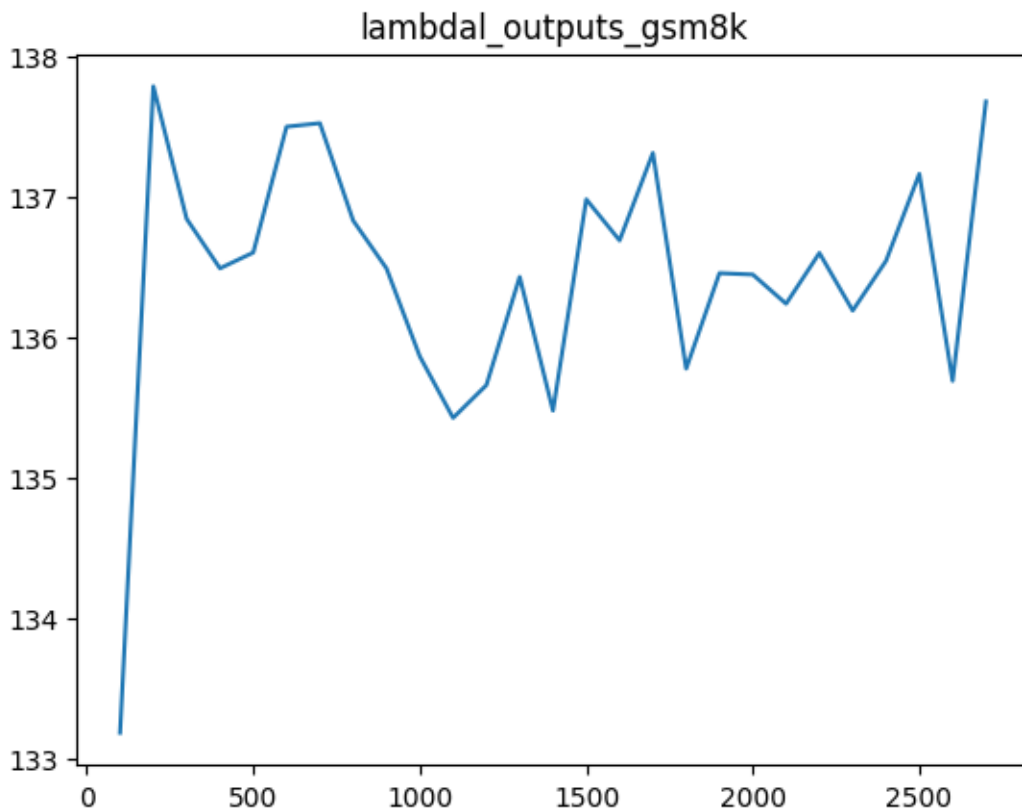
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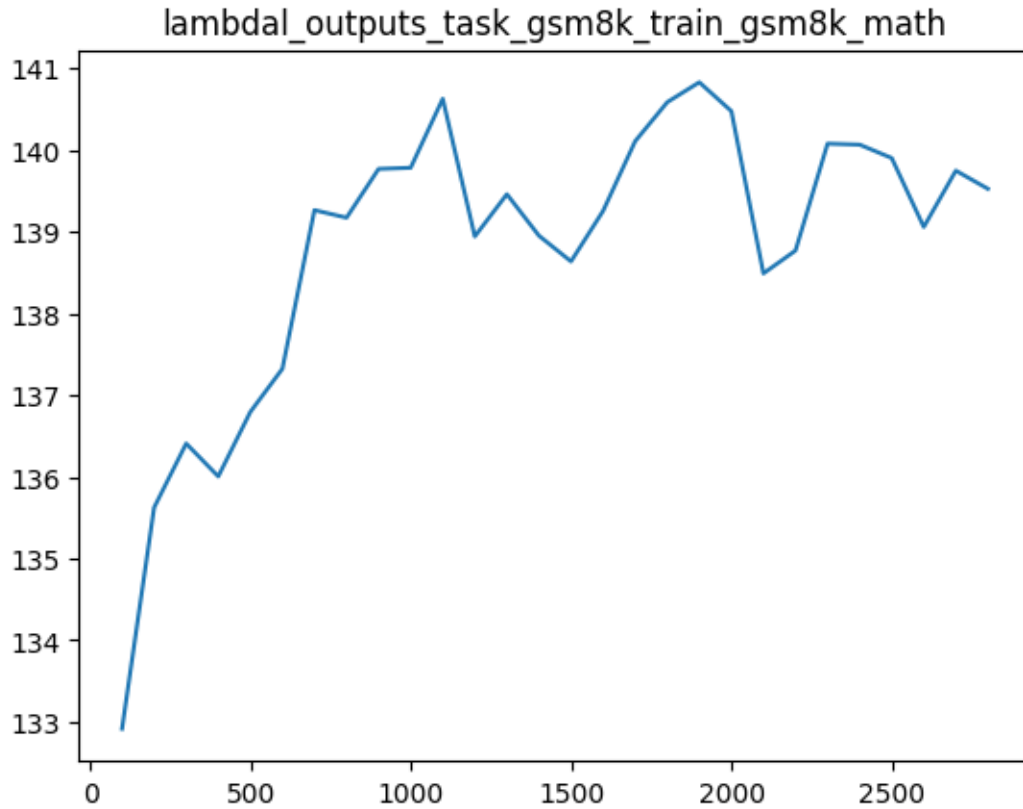
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    "lambdal_outputs_math": format_.format(inference_task="Math",
    ↪training_task="Math"),
    "lambdal_outputs_task_gsm8k_train_gsm8k_math": format_.
    ↪format(inference_task="GSM8K", training_task="GSM8K and Math"),
    "lambdal_outputs_task_math_train_gsm8k_math": format_.
    ↪format(inference_task="Math", training_task="GSM8K and Math"),
}

order =

fig, axes = plt.subplots(2, 2, figsize=(12, 8))
axes = axes.flatten()

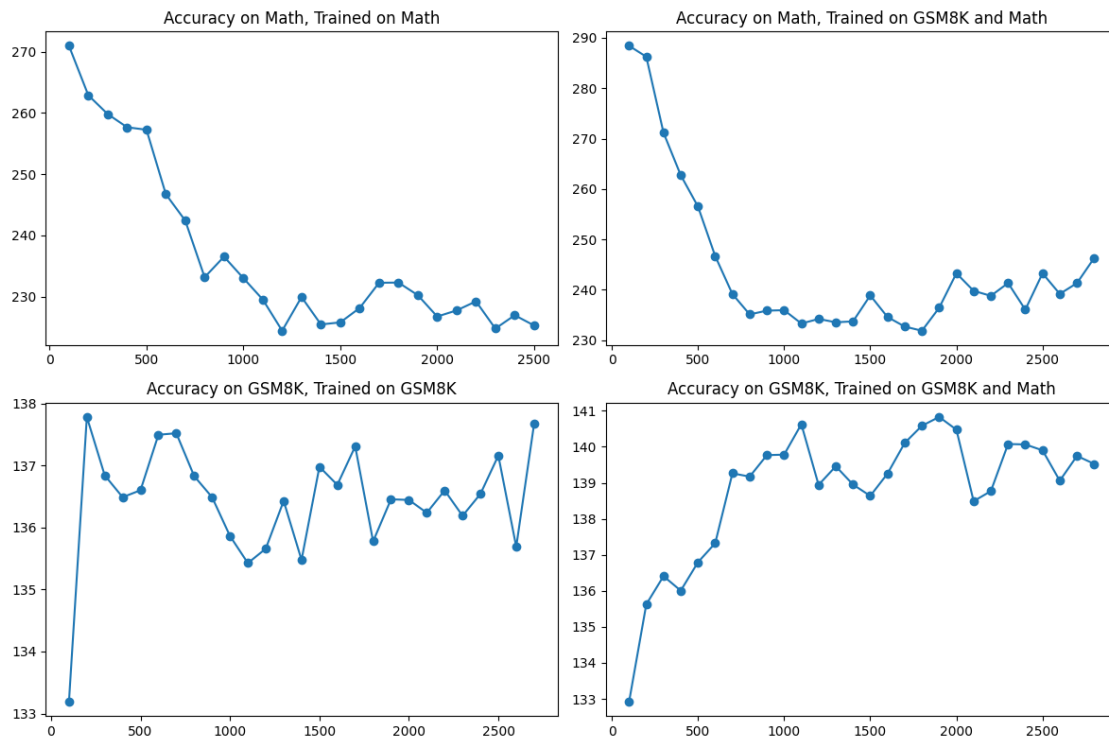
for i, folder_key in enumerate(by_folder):
```

```

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()

```



[]: