

1 Joseph R. Saveri (State Bar No. 130064)  
2 **JOSEPH SAVERI LAW FIRM, LLP**  
3 601 California Street, Suite 1000  
4 San Francisco, CA 94108  
5 Telephone: (415) 500-6800  
6 Facsimile: (415) 395-9940  
7 Email: jsaveri@saverilawfirm.com

8 Matthew Butterick (State Bar No. 250953)  
9 1920 Hillhurst Avenue, #406  
10 Los Angeles, CA 90027  
11 Telephone: (323) 968-2632  
12 Facsimile: (415) 395-9940  
13 Email: mb@buttericklaw.com

14 Laura M. Matson (*pro hac vice* pending)  
15 **LOCKRIDGE GRINDAL NAUEN PLLP**  
16 100 Washington Avenue South, Suite 2200  
17 Minneapolis, MN 55401  
18 Telephone: (612) 339-6900  
19 Facsimile: (612) 339-0981  
20 Email: lmmatson@locklaw.com

21 *Counsel for Individual and Representative*  
22 *Plaintiffs and the Proposed Class*

23 **UNITED STATES DISTRICT COURT**  
24 **NORTHERN DISTRICT OF CALIFORNIA**  
25 **SAN FRANCISCO DIVISION**

26 **Abdi Nazemian**, an individual;  
27 **Brian Keene**, an individual; and  
28 **Stewart O’Nan**, an individual;

Individual and Representative Plaintiffs,

v.

**NVIDIA Corporation**, a Delaware corporation;  
Defendant.

Case No.

**COMPLAINT**

**CLASS ACTION**

**DEMAND FOR JURY TRIAL**

1 Plaintiffs Abdi Nazemian, Brian Keene, and Stewart O’Nan (together “Plaintiffs”), on behalf of  
2 themselves and all others similarly situated, bring this class-action complaint (“Complaint”) against  
3 defendant NVIDIA Corporation (“NVIDIA” or “Defendant”).  
4

## 5 OVERVIEW

6 1. *Artificial intelligence*—commonly abbreviated “AI”—denotes software that is designed  
7 to algorithmically simulate human reasoning or inference, often using statistical methods.

8 2. A *large language model* is an AI software program designed to emit convincingly  
9 naturalistic text outputs in response to user prompts. NeMo Megatron-GPT (“NeMo Megatron”) is a  
10 series of large language models created by NVIDIA and released in September 2022.

11 3. Rather than being programmed in the traditional way—that is, by human programmers  
12 writing code—a large language model is *trained* by copying an enormous quantity of textual works,  
13 extracting protected expression from these works, and transforming that protected expression into a  
14 large set of numbers called *weights* that are stored within the model. These weights are entirely and  
15 uniquely derived from the protected expression in the training dataset. Whenever a large language  
16 model generates text output in response to a user prompt, it is performing a computation that relies on  
17 these stored weights, with the goal of imitating the protected expression ingested from the training  
18 dataset.

19 4. Plaintiffs and Class members are authors. They own registered copyrights in certain  
20 books that were included in the training dataset that NVIDIA has admitted copying to train its NeMo  
21 Megatron models. Plaintiffs and Class members never authorized NVIDIA to use their copyrighted  
22 works as training material.

23 5. NVIDIA copied these copyrighted works multiple times to train its NeMo Megatron  
24 language models.  
25

## 26 JURISDICTION AND VENUE

27 6. This Court has subject-matter jurisdiction under 28 U.S.C. § 1331 because this case  
28 arises under the Copyright Act (17 U.S.C. § 501).



## AGENTS AND CO-CONSPIRATORS

1  
2 14. The unlawful acts alleged against the Defendant in this class action complaint were  
3 authorized, ordered, or performed by the Defendant's respective officers, agents, employees,  
4 representatives, or shareholders while actively engaged in the management, direction, or control of the  
5 Defendant's businesses or affairs. The Defendant's agents operated under the explicit and apparent  
6 authority of their principals. Defendant, and its subsidiaries, affiliates, and agents operated as a single  
7 unified entity.

8 15. Various persons or firms not named as defendants may have participated as co-  
9 conspirators in the violations alleged herein and may have performed acts and made statements in  
10 furtherance thereof. Each acted as the principal, agent, or joint venture of, or for Defendant with  
11 respect to the acts, violations, and common course of conduct alleged herein.

## FACTUAL ALLEGATIONS

12  
13  
14 16. NVIDIA is a diversified technology company founded in 1993 that originally focused on  
15 computer-graphics hardware and has since expanded to other computationally intensive fields,  
16 including software and hardware for training and operating AI software programs.

17 17. In September 2022, NVIDIA released its NeMo Megatron series of *large language*  
18 *models*. A large language model ("LLM") is AI software designed to emit convincingly naturalistic text  
19 outputs in response to user prompts.

20 18. Though an LLM is a software program, it is not created the way most software  
21 programs are—that is, by human software programmers writing code. Rather, an LLM is *trained* by  
22 copying an enormous quantity of textual works and then feeding these copies into the model. This  
23 corpus of input material is called the *training dataset*.

24 19. During training, the LLM copies and ingests each textual work in the training dataset  
25 and extracts protected expression from it. The LLM progressively adjusts its output to more closely  
26 approximate the protected expression copied from the training dataset. The LLM records the results of  
27 this process in a large set of numbers called *weights* that are stored within the model. These weights are  
28 entirely and uniquely derived from the protected expression in the training dataset. For instance, the

1 NeMo Megatron-GPT 20B language model is so named because the model stores 20 billion (“20B”)  
2 weights derived from protected expression in its training dataset.

3 20. Once the LLM has copied and ingested the textual works in the training dataset and  
4 transformed the protected expression into stored weights, the LLM is able to emit convincing  
5 simulations of natural written language in response to user prompts. Whenever an LLM generates text  
6 output in response to a user prompt, it is performing a computation that relies on these stored weights,  
7 with the goal of imitating the protected expression ingested from the training dataset.

8 21. Much of the material in NVIDIA’s training dataset, however, comes from copyrighted  
9 works—including books written by Plaintiffs and Class members—that were copied by NVIDIA  
10 without consent, without credit, and without compensation.

11 22. In September 2022, NVIDIA first announced the availability of the NeMo Megatron  
12 language models in a video on its website: “For the first time, NVIDIA is making its checkpoints  
13 available publicly, where the checkpoints are trained with NeMo Megatron ... this is just to begin with.  
14 And this is not the end. We will continue to add more checkpoints in the future.”<sup>1</sup> In this context  
15 “checkpoints” is an alternate term for language models within the NeMo Megatron series. The  
16 language models released in September 2022 include NeMo Megatron-GPT 1.3B, NeMo Megatron-  
17 GPT 5B, NeMo Megatron-GPT 20B, and NeMo Megatron-T5 3B.

18 23. Each of the NeMo Megatron models is hosted on a website called Hugging Face, where  
19 it has a *model card* that provides information about the model, including its training dataset. The model  
20 card for each of the NeMo Megatron models states that, “The model was trained on ‘The Pile’ dataset  
21 prepared by EleutherAI.”<sup>2</sup>

22  
23  
24  
25 <sup>1</sup> See <https://www.nvidia.com/en-us/on-demand/session/gtcfall22-a41200/?nvid=nv-int-tblg-881125>,  
26 starting at 37:25.

27 <sup>2</sup> See, e.g., <https://huggingface.co/nvidia/nemo-megatron-gpt-1.3B#training-data>,  
28 <https://huggingface.co/nvidia/nemo-megatron-gpt-5B#training-data>,  
<https://huggingface.co/nvidia/nemo-megatron-gpt-20B#training-data>,  
<https://huggingface.co/nvidia/nemo-megatron-t5-3B#training-data>

1           24.     The Pile is a training dataset curated by a research organization called EleutherAI. In  
2 December 2020, EleutherAI introduced this dataset in a paper called “The Pile: An 800GB Dataset of  
3 Diverse Text for Language Modeling”<sup>3</sup> (the “EleutherAI Paper”).

4           25.     According to the EleutherAI Paper, one of the components of The Pile is a collection of  
5 books called Books3. The EleutherAI Paper reveals that the Books3 dataset comprises 108 gigabytes of  
6 data, or approximately 12% of the dataset, making it the third largest component of The Pile by size.

7           26.     The EleutherAI Paper further describes the contents of Books3:

8  
9                   Books3 is a dataset of books derived from a copy of the contents of the  
10                   Bibliotik private tracker ... Bibliotik consists of a mix of fiction and  
11                   nonfiction books and is almost an order of magnitude larger than our next  
12                   largest book dataset (BookCorpus2). We included Bibliotik because  
13                   books are invaluable for long-range context modeling research and  
14                   coherent storytelling.<sup>4</sup>

15           27.     Bibliotik is one of a number of notorious “shadow library” websites that also includes  
16 Library Genesis (aka LibGen), Z-Library (aka B-ok), Sci-Hub, and Anna’s Archive. These shadow  
17 libraries have long been of interest to the AI-training community because they host and distribute vast  
18 quantities of unlicensed copyrighted material. For that reason, these shadow libraries also violate the  
19 U.S. Copyright Act.

20           28.     The person who assembled the Books3 dataset, Shawn Presser, has confirmed in public  
21 statements that it represents “all of Bibliotik” and contains approximately 196,640 books.

22           29.     Plaintiffs’ copyrighted books listed in Exhibit A are among the works in the Books3  
23 dataset. Below, these books are referred to as the **Infringed Works**.

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26  
27           <sup>3</sup> Available at <https://arxiv.org/pdf/2101.00027.pdf>

28           <sup>4</sup> *Id.* at 3–4.





1 thousands of members in the Class geographically dispersed throughout the United States. Therefore,  
2 joinder of all members of the Class in the prosecution of this action is impracticable.

3 42. **Typicality.** Plaintiffs' claims are typical of the claims of other members of the Class  
4 because Plaintiffs and all members of the Class were damaged by the same wrongful conduct of  
5 Defendant as alleged herein, and the relief sought herein is common to all members of the Class.

6 43. **Adequacy.** Plaintiffs will fairly and adequately represent the interests of the members of  
7 the Class because the Plaintiffs have experienced the same harms as the members of the Class and have  
8 no conflicts with any other members of the Class. Furthermore, Plaintiffs have retained sophisticated  
9 and competent counsel who are experienced in prosecuting federal and state class actions, as well as  
10 other complex litigation.

11 44. **Commonality and predominance.** Numerous questions of law or fact common to each  
12 Class member arise from Defendant's conduct and predominate over any questions affecting the  
13 members of the Class individually:

- 14 a. Whether Defendant violated the copyrights of Plaintiffs and the Class when they  
15 obtained copies of Plaintiffs' Infringed Works and used them to train the NeMo  
16 Megatron language models.
- 17 b. Whether Defendant intended to cause further infringement of the Infringed Works with  
18 the NeMo Megatron models because they have distributed these models under an open  
19 license and advertised those models as a base from which to build further models.
- 20 c. Whether any affirmative defense excuses Defendant's conduct.
- 21 d. Whether any statutes of limitation constrain the potential for recovery for Plaintiffs and  
22 the Class.

23 45. **Other class considerations.** Defendant has acted on grounds generally applicable to the  
24 Class. This class action is superior to alternatives, if any, for the fair and efficient adjudication of this  
25 controversy. Prosecuting the claims pleaded herein as a class action will eliminate the possibility of  
26 repetitive litigation. There will be no material difficulty in the management of this action as a class  
27 action. The prosecution of separate actions by individual Class members would create the risk of  
28 inconsistent or varying adjudications, establishing incompatible standards of conduct for Defendant.

**DEMAND FOR JUDGMENT**

WHEREFORE, Plaintiffs request that the Court enter judgment on their behalf and on behalf of the Class defined herein, by ordering:

- a) This action may proceed as a class action, with Plaintiffs serving as Class Representatives, and with Plaintiffs' counsel as Class Counsel.
- b) Judgment in favor of Plaintiffs and the Class and against Defendant.
- c) An award of statutory and other damages under 17 U.S.C. § 504 for violations of the copyrights of Plaintiffs and the Class by Defendant.
- d) Reasonable attorneys' fees as available under 17 U.S.C. § 505 or other applicable statute.
- e) Destruction or other reasonable disposition of all copies Defendant made or used in violation of the exclusive rights of Plaintiffs and the Class, under 17 U.S.C. § 503(b).
- f) Pre- and post-judgment interest on the damages awarded to Plaintiffs and the Class, and that such interest be awarded at the highest legal rate from and after the date this class action complaint is first served on Defendant.
- g) Defendant is to be financially responsible for the costs and expenses of a Court-approved notice program through post and media designed to give immediate notification to the Class.
- h) Further relief for Plaintiffs and the Class as may be just and proper.

**JURY TRIAL DEMANDED**

Under Federal Rule of Civil Procedure 38(b), Plaintiffs demand a trial by jury of all the claims asserted in this Complaint so triable.

1 Dated: March 8, 2024

By: /s/ Joseph R. Saveri  
Joseph R. Saveri

3 Joseph R. Saveri (State Bar No. 130064)  
4 Christopher K. L. Young (State Bar No. 318371)  
5 Elissa Buchanan (State Bar No. 249996)  
6 **JOSEPH SAVERI LAW FIRM, LLP**  
7 601 California Street, Suite 1000  
8 San Francisco, CA 94108  
9 Telephone: (415) 500-6800  
10 Facsimile: (415) 395-9940  
11 Email: jsaveri@saverilawfirm.com  
12 cyoung@saverilawfirm.com  
13 eabuchanan@saverilawfirm.com

14 Matthew Butterick (State Bar No. 250953)  
15 1920 Hillhurst Avenue, #406  
16 Los Angeles, CA 90027  
17 Telephone: (323) 968-2632  
18 Facsimile: (415) 395-9940  
19 Email: mb@buttericklaw.com

20 Brian D. Clark (*pro hac vice* pending)  
21 Laura M. Matson (*pro hac vice* pending)  
22 Arielle S. Wagner (*pro hac vice* pending)  
23 Eura Chang (*pro hac vice* pending)  
24 **LOCKRIDGE GRINDAL NAUEN PLLP**  
25 100 Washington Avenue South, Suite 2200  
26 Minneapolis, MN 55401  
27 Telephone: (612) 339-6900  
28 Facsimile: (612) 339-0981  
Email: bdclark@locklaw.com  
lmmatson@locklaw.com  
aswagner@locklaw.com  
echang@locklaw.com

*Counsel for Individual and Representative  
Plaintiffs and the Proposed Class*