D. Reproducible research is a fundamental aspect of doing research projects and conducting experiments. Being able to detail your thought process and show how you conducted experiments is important so that someone else can come along and expand upon your research. The issue with reproducible research in machine learning is how little it occurs. According to a scholarly article named, "A Guide to Computational Reproducibility in Signal Processing and Machine Learning," only "50%" of researcher were able to reproduce their OWN experiments. That concept is wild to me, since I would think you would understand your own thought process to an experiment, but I guess when the experiment is as extensive as ones that these researchers are doing, it makes sense. According to Zihao Ding, reproducibility should be a "minimum requirement" for a research paper to be informative and, frankly, believable. It makes sense though, as since machine learning can be done solely through commands, it should be easy to document why you did something in an experiment.

Citations:

Shenouda, J., & Bajwa, W. U. (2022, February 15). *A guide to computational reproducibility in signal processing and machine learning*. arXiv.org. Retrieved October 2, 2022, from https://arxiv.org/abs/2108.12383

Ding, Z. (2020, August 24). *5 - reproducibility*. Machine Learning Blog | ML@CMU | Carnegie Mellon University. Retrieved October 2, 2022, from https://blog.ml.cmu.edu/2020/08/31/5-reproducibility/