

Definitions of Model Collapse

- Catastrophic Increase of Population Risk
- Any Increase of Population Risk
- Asymptotically Diverging Population Risk
- Change in Scaling Law
- Collapsing Variance
- Entanglement of Real Data Mode(s)
- Disappearance of Real Tail Data
- Appearance of Hallucinated Data

Explicit Definition?

N/A	N/A	N/A	Y	N/A	Y	N	N	N	Y	N/A	Y	Y	N	N	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
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Which Definitions of Model Collapse Are Used?

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- Taori & Hashimoto (2022 Sep)
- Hataya et al. (2022 Nov)
- Martinez et al. (2023 Feb)
- Shumailov et al. (2023 May)
- Martinez et al. (2023 Jun)
- Alemohammad et al. (2023 Jul)
- Bertrand et al. (2023 Sep)
- Guo et al. (2023 Nov)
- Bohacek & Farid (2023 Nov)
- Briesch et al. (2023 Nov)
- Jain et al. (2024 Feb)
- Dohmatob et al. (2024 Feb)
- Dohmatob et al. (2024 Apr)
- Fu et al. (2024 Apr)
- Gerstgrasser et al. (2024 Apr)
- Marchi et al. (2024 Apr)
- Chen et al. (2024 Apr)
- Seddik et al. (2024 Apr)
- Xing et al. (2024 Apr)
- Feng et al. (2024 May)
- Ferbach et al. (2024 Jun)
- Shumailov et al. (2024 Jun)
- Dohmatob et al. (2024 Jul)
- Chen et al. (2024 Sep)
- Kazdan et al. (2024 Oct)
- Dey & Donoho (2024 Oct)
- Suresh et al. (2024 Dec)
- Zhu et al. (2024 Dec)