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Review of Generative techniques in Deep Learning Cryptogaphy

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Contents

Bibliography

- [1] C.-C. Lin, A. Jaech, X. Li, M. R. Gormley, and J. Eisner, "Limitations of Autoregressive Models and Their Alternatives," arXiv preprint arXiv:2010.11939, 2020, [Online]. Available: https://arxiv.org/abs/2010.11939
- [2] H. Zhang, I. Goodfellow, D. Metaxas, and A. Odena, "Promises, Outlooks and Challenges of Diffusion Language Modeling," arXiv preprint arXiv:2406.11473, 2023, [Online]. Available: https://arxiv.org/abs/2406.11473
- [3] K. Lin et αl., "Beyond Autoregression: Fast LLMs via Self-Distillation Through Time," αrXiv preprint αrXiv:2410.21035, 2023, [Online]. Available: https://arxiv.org/abs/2410.21035
- [4] A. Wang et αl., "Embers of Autoregression: Understanding Large Language Models through Next-Word Prediction," αrXiv preprint αrXiv:2309.13638, 2023, [Online]. Available: https://arxiv.org/abs/2309.13638
- [5] N. Mikhaylovskiy and I. Churilov, "Autocorrelations Decay in Texts and Applicability Limits of Language Models," αrXiv preprint αrXiv:2305.06615, 2023, [Online]. Available: https://arxiv.org/abs/2305.06615
- [6] B. Gaujac, I. Feige, and D. Barber, "Learning Deep-Latent Hierarchies by Stacking Wasserstein Autoencoders," arXiv preprint arXiv:2010.03467, 2020, [Online]. Available: https://arxiv.org/abs/2010.03467
- [7] A. Vahdat and J. Kautz, "NVAE: A Deep Hierarchical Variational Autoencoder," αrXiv preprint αrXiv:2007.03898, 2020, [Online]. Available: https://arxiv.org/abs/2007.03898
- [8] C. Zhang, Y. Bengio, M. Hardt, B. Recht, and O. Vinyals, "How Deep Networks Learn Sparse and Hierarchical Data," αrXiv preprint αrXiv:2404.10727, 2023, [Online]. Available: https:// arxiv.org/abs/2404.10727
- [9] Y. Wang, Y. Liu, H. Zhang, J.-Y. Zhu, and J. Wu, "Hierarchical Structured Neural Network for Retrieval," arXiv preprint arXiv:2408.06653, 2023, [Online]. Available: https://arxiv.org/abs/2408.06653
- [10] J. Li et αl., "A Primer on Large Language Models and their Limitations," αrXiv preprint αrXiv:2412.04503, 2023, [Online]. Available: https://arxiv.org/abs/2412.04503
- [11] H. Zhang, I. Goodfellow, D. Metaxas, and A. Odena, "Autoregressive Models in Vision: A Survey," arXiv preprint

- arXiv:2411.05902, 2023, [Online]. Available: https://arxiv. org/abs/2411.05902
- [12] K. Lin et αl., "When Linear Attention Meets Autoregressive Decoding," arXiv preprint arXiv:2406.07368, 2023, [Online]. Available: https://arxiv.org/abs/2406.07368