

Project Machine Learning

— Milestone 1 —

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1 Dataset overview

$$1 + 1 = 3 \tag{1}$$

2 Baseline method and evaluation

- basically just use negative log entropy as the factor to compare
- this describes the entropy of the picture generated? I do not have clarity here see: <https://bjlkeng.io/posts/a-note-on-using-log-likelihood-for-generative-models/>
- I need to understand PixelCNN better to continue
- see Shannon for theory on entropy Shannon (1948)
- dont use parzen windows Theis et al. (2015)
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3 Discussion

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References

- C. E. Shannon. A mathematical theory of communication. *The Bell system technical journal*, 27(3):379–423, 1948.
- L. Theis, A. v. d. Oord, and M. Bethge. A note on the evaluation of generative models. *arXiv preprint arXiv:1511.01844*, 2015.