**Machine Learning II Final Report**

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1. Introduction

(overview of the project and an outline of the report

1. Dataset Description

The dataset from Kaggle contains four directories: monet\_tfrec, photo\_tfrec, monet\_jpg, and photo\_jpg. The monet\_tfrec and monet\_jpg directories contain the same painting images, and the photo\_tfrec and photo\_jpg directories contain the same photos.

The monet directories contain 300 Monet paintings sized 256x256, which can be used to train the model. The photo directories contain 7028 photos sized 256x256. Monet-style is required to be added to these images.

1. Algorithm Description

(Provide some background information on the development of the algorithm and include necessary equations and figures.

Introduction:

<https://machinelearningmastery.com/what-is-cyclegan/>

Network architecture:

1. Experimental Setup

Describe how you are going to use the data to train and test the network.

Explain how you will implement the network in the chosen framework and how you will judge the performance. Will you use minibatches?

How will you determine the size of the minibatches?

How will you determine training parameters (e.g., learning rate)? How will you detect/prevent overfitting and extrapolation?

1. Results

Describe the results of your experiments, using figures and tables wherever possible. Include all results (including all figures and tables) in the main body of the report, not in appendices. Provide an explanation of each figure and table that you include. Your discussions in this section will be the most important part of the report.

1. Summary and conclusions

Summarize the results you obtained, explain what you have learned, and suggest improvements that could be made in the future.

1. References
2. Code