



# Introduction

**With machine learning, can we determine if a landscape photograph is capable of winning a photography contest.**

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# Data Collection

All images came from the website called ViewBug

- They have monthly contests
- The show winners from each contest
- Website throttles downloading images after first 1000
- Lots of issues with EDA, Errant photos, photos that would not scale







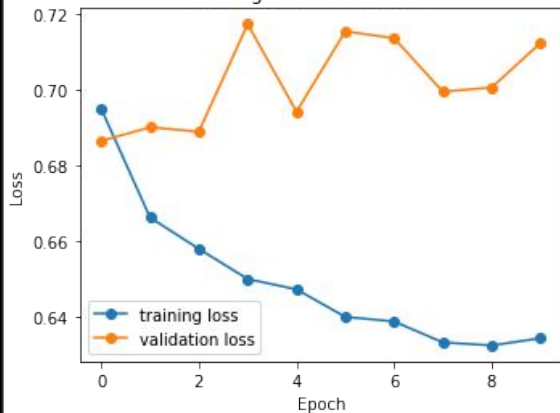
## Data Description

**Data has been separated into 2 classes, and for simplistic reasons they are good and bad.**

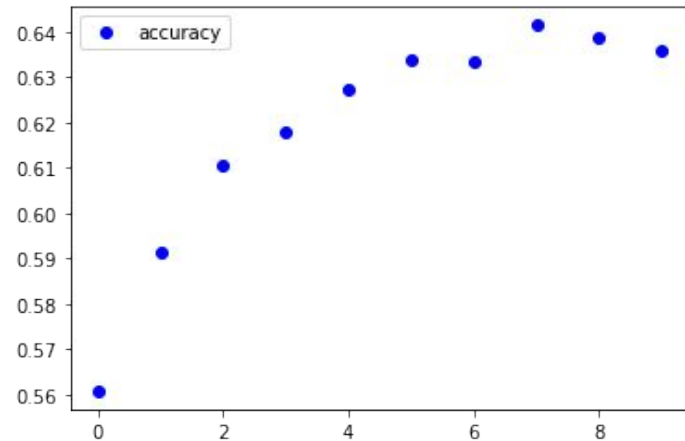
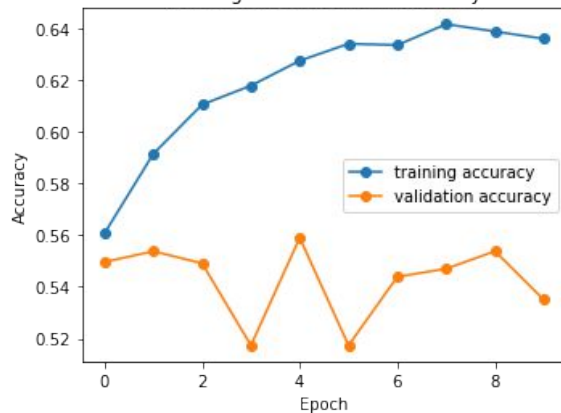
**They were further separated into training and validation sets**

# Modelling

Training and Validation Loss



Training and Validation Accuracy



## CNN Modelling

- Adam Optimizer
- Sequential Model
- Pretrained Data using VGG16
- 10 Epochs - Maybe try more later





## **Plan of Action / Conclusion**

**I am able to find with 100% accuracy award winning photos.  
Find a better set of non award winning photos.  
Re-run the model.  
Maybe look at logistic regression on the data if I have time.**