**Machine Learning Training Log**

Use this log to record the results of training your machine learning model. If you need more than three sub-categories, you can add rows to the table. You can also use fewer than three sub-categories, if needed.

**Training 1**

|  |  |  |  |
| --- | --- | --- | --- |
| **Results of Training 1 with Subcategories** | | | |
| **Classification** | **Number Correct** | **Number Incorrect** | **Total** |
| ***<Class 1>*** |  |  |  |
| *<Subcategory 1>* |  |  |  |
| *<Subcategory 2>* |  |  |  |
| *<Subcategory 3>* |  |  |  |
| ***<Class 2>*** |  |  |  |
| *<Subcategory 1>* |  |  |  |
| *<Subcategory 2>* |  |  |  |
| *<Subcategory 3>* |  |  |  |
| **Total** |  |  |  |

1. What is the probability of your machine learning model correctly identifying an image in each classification?
2. What are the conditional probabilities of your image correctly identifying a class of image given it is in each subcategory?
3. How will you retrain your model to improve its performance?

**Training 2**

|  |  |  |  |
| --- | --- | --- | --- |
| **Results of Training 2 with Subcategories** | | | |
| **Classification** | **Number Correct** | **Number Incorrect** | **Total** |
| ***<Class 1>*** |  |  |  |
| *<Subcategory 1>* |  |  |  |
| *<Subcategory 2>* |  |  |  |
| *<Subcategory 3>* |  |  |  |
| ***<Class 2>*** |  |  |  |
| *<Subcategory 1>* |  |  |  |
| *<Subcategory 2>* |  |  |  |
| *<Subcategory 3>* |  |  |  |
| **Total** |  |  |  |

1. What is the probability of your machine learning model correctly identifying an image in each classification?
2. What are the conditional probabilities of your image correctly identifying a class of image given it is in each subcategory?
3. How will you retrain your model to improve its performance?