

- **DataCleaning.py** in Data Cleaning file used the original train and test file from Kaggle, and the external information-dog breed, weight and color to generated cleaned cat and dog file seperately
- The whole training process contains two stages, the first stage is composed of 7 models (3 XGB, 2Extreme Forest, 2 Random Forest), the second is composed of 2 models (2 XGB models). **Stacking-1-Stage.py** and **Stacking-2-Stage.py** are the codes related to the 2 stages. **Blending.py** is the code for the final blending stage. For each model in each stage, there is a corresponding code that can be used for parameter tuning in the **Parameter Tuning** file

### *Data Cleaning Stage*

### *1 Stage*

### *2 Stage*

### *Blending*

### *Output*

