Rainforest Post Process - Private LB 0.974!

In this notebook we demonstrate a post process for rainforest comp. We will use the output from the following notebook: https://www.kaggle.com/meaninglesslives/rfcx-minimal We will increase it's private LB score from 0.964 to 0.974!

To learn more about this post process, read the discussion here

Post Process Parameters

To use the following post process, load your submission.csv file and first try MODE=1. Next try MODE=2. Next try MODE=3. If those three don't increase your LB, then try MODE=1 with different FUDGE values. Try values 0.5, 1, and 3.

```
In [1]:
# USE MODE 1, 2, or 3
MODE = 1
# LOAD SUBMISSION
import pandas as pd, numpy as np
FUDGE = 2.0
FILE = '../input/rfcx-minimal/submission.csv'
df = pd.read csv(FILE)
for k in range(24):
    df.iloc[:,1+k] -= df.iloc[:,1+k].min()
    df.iloc[:,1+k] /= df.iloc[:,1+k].max()
# CONVERT PROBS TO ODDS, APPLY MULTIPLIER, CONVERT BACK TO PROBS
def scale(probs, factor):
    probs = probs.copy()
    idx = np.where(probs!=1)[0]
    odds = factor * probs[idx] / (1-probs[idx])
    probs[idx] = odds/(1+odds)
    return probs
# TRAIN AND TEST MEANS
d1 = df.iloc[:,1:].mean().values
d2 = np.array([113,204,44,923,53,41,3,213,44,23,26,149,255,14,123,222,46,6]
for k in range(24):
    if MODE==1: d = FUDGE
    if MODE==2: d = d1[k]/(1-d1[k])
    if MODE==3: s = d2[k] / d1[k]
    else: s = (d2[k]/(1-d2[k]))/d
    df.iloc[:,k+1] = scale(df.iloc[:,k+1].values,s)
df.to_csv('submission_with_pp.csv',index=False)
```

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