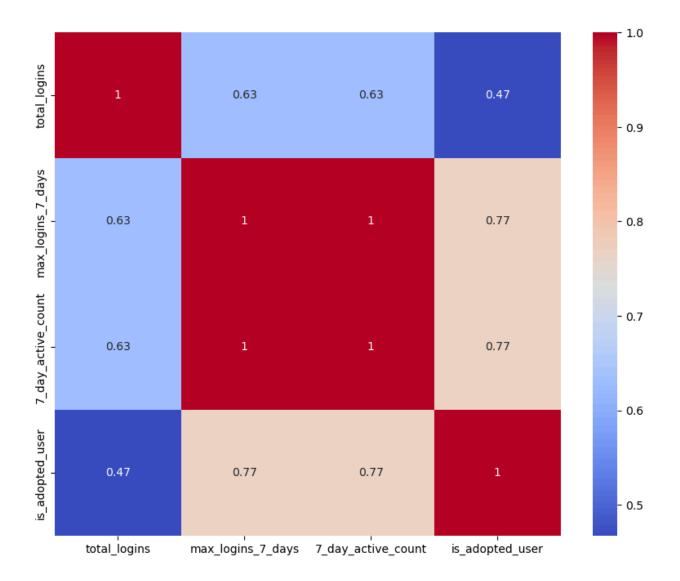
Relax Inc.

Data was imported and date and time stamps were converted to date time objects to aid in aggregation.

'Total_logins' and '7_day_active_count' counts were calculated by using groupby on a 7 day rolling period.

Adopted users were identified and a column was added with a boolean for each user. The correlation plot of the numerical columns shows a strong correlation between 'is_adopted' with 'Total_logins' and '7_day_active_count'



A random forest classifier was selected for classification. Creation source was encoded as the only categorical variable.

```
creation source
                        int64
opted_in_to_mailing_list
                          int64
                    int64
org_id
invited_by_user_id
                        float64
total_logins
                     int64
7_day_active_count
                         float64
precision recall f1-score support
    False
             1.00
                     1.00
                             1.00
                                     9523
    True
             1.00
                     1.00
                             1.00
                                    32061
  accuracy
                           1.00
                                  41584
 macro avg
                1.00
                        1.00
                                1.00
                                      41584
```

1.00

weighted avg

It achieve a 100% accuracy and was cross fold validated, cv=5

1.00

Redundant or linearly correlated features were removed to prevent overfitting but accuracy remained at 100%

The plot of rf importance shows highest influence due to 7 day active count.

1.00

41584

