```python
#Fit a logistic regression model on the training data
#Print the intercept and model coefficients

# Add a column of ones (similar to the sm.add_constant in Linear Regression)
# Need this column for the 'experimental matrix' and matrix multiplication behind the scenes
train_X = sm.add_constant(train_X)

# Fit a logististic regression model
# using method='lbfgs' to handle potential singularity issues
logit = sm.Logit(train_y, train_X).fit(method='lbfgs')

# Get model output
print(logit.summary())
```

```
                           Logit Regression Results
==============================================================================
Dep. Variable:     HOME_NAME_Pelicans   No. Observations:                22125
Model:                          Logit   Df Residuals:                    21950
Method:                           MLE   Df Model:                          174
Date:                Sun, 13 Apr 2025   Pseudo R-squ.:                 0.05668
Time:                        03:53:42   Log-Likelihood:                -1854.1
converged:                      False   LL-Null:                       -1965.5
Covariance Type:            nonrobust   LLR p-value:                  0.007338
==============================================================================
                                coef    std err          z      P>|z|      [0.025      0.975]
------------------------------------------------------------------------------
const                         -0.0050        nan        nan        nan        nan        nan
HOME_FIELD_GOALS_MADE          0.0113        nan        nan        nan        nan        nan
HOME_FIELD_GOALS_ATTEMPTED    -0.0228        nan        nan        nan        nan        nan
HOME_FIELD_GOALS_PERCENTAGE   -0.0019        nan        nan        nan        nan        nan
HOME_THREE_POINTERS_MADE      -0.0316        nan        nan        nan        nan        nan
HOME_THREE_POINTERS_ATTEMPTED -0.0189        nan        nan        nan        nan        nan
HOME_THREE_POINTERS_PERCENTAGE -0.0022       nan        nan        nan        nan        nan
HOME_FREE_THROWS_MADE          0.0046        nan        nan        nan        nan        nan
HOME_FREE_THROWS_ATTEMPTED    -0.0051        nan        nan        nan        nan        nan
HOME_FREE_THROWS_PERCENTAGE   -0.0033        nan        nan        nan        nan        nan
HOME_REBOUNDS_OFFENSIVE       -0.0049        nan        nan        nan        nan        nan
HOME_REBOUNDS_DEFENSIVE        0.0173        nan        nan        nan        nan        nan
```