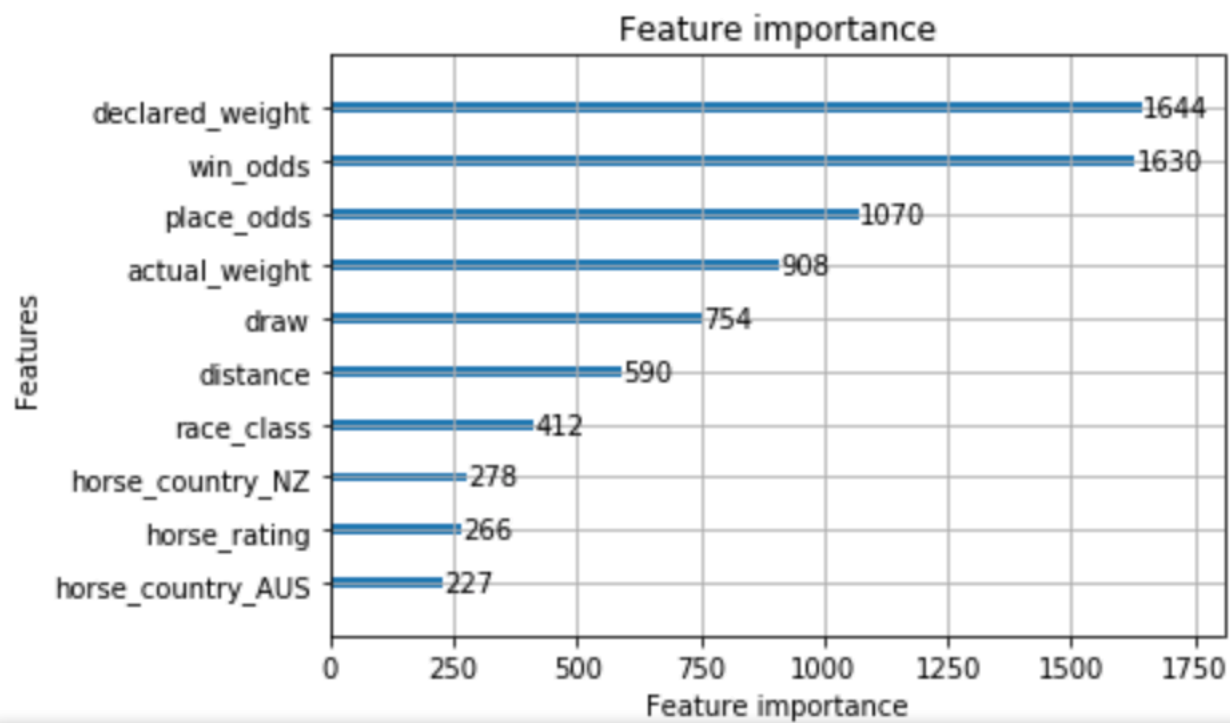```
# plot model's feature importances (original data)
lgb.plot_importance(clf, max_num_features=10)
```

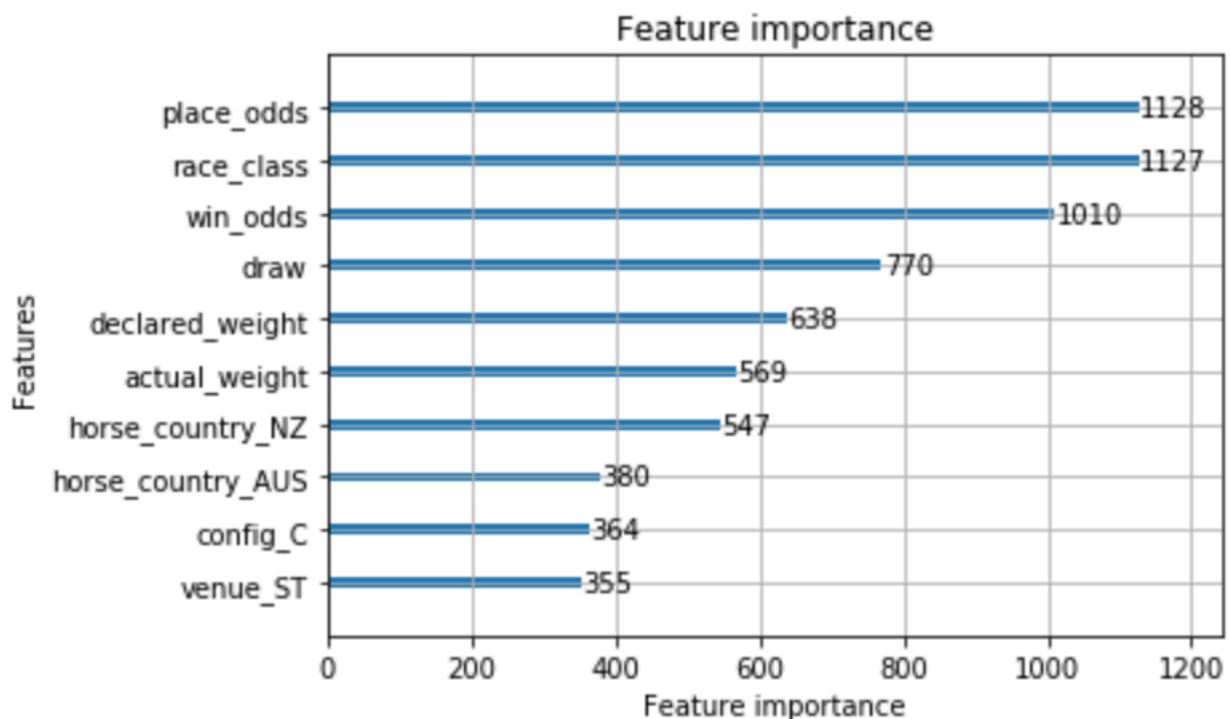<matplotlib.axes._subplots.AxesSubplot at 0x140b7efd0>

Feature importance

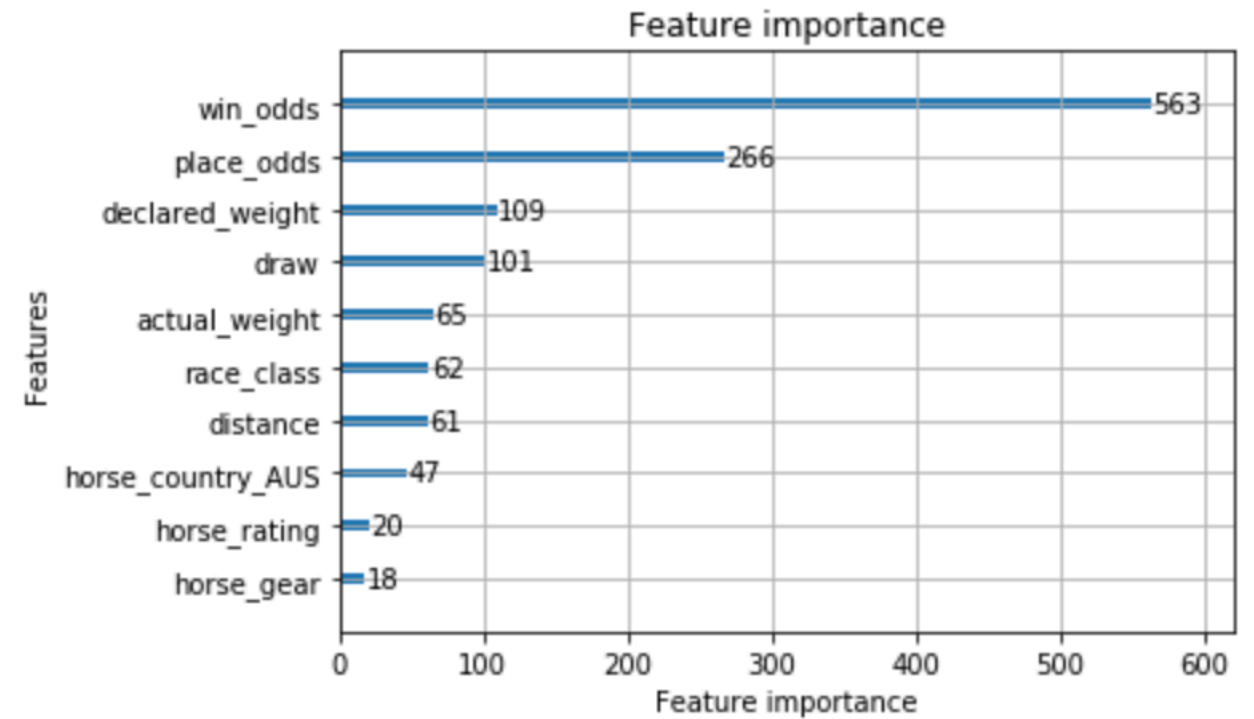| Feature | Importance |
|---|---|
| declared_weight | 1644 |
| win_odds | 1630 |
| place_odds | 1070 |
| actual_weight | 908 |
| draw | 754 |
| distance | 590 |
| race_class | 412 |
| horse_country_NZ | 278 |
| horse_rating | 266 |
| horse_country_AUS | 227 |

```
# plot model's feature importances (Random Under-sampling)
lgb.plot_importance(clf, max_num_features=10)
```

<matplotlib.axes._subplots.AxesSubplot at 0x1412c2ba8>

Feature importance

Feature	Importance
win_odds	563
place_odds	266
declared_weight	109
draw	101
actual_weight	65
race_class	62
distance	61
horse_country_AUS	47
horse_rating	20
horse_gear	18

```
# plot model's feature importances (SMOTE)
lgb.plot_importance(clf, max_num_features=10)
```

<matplotlib.axes._subplots.AxesSubplot at 0x15282ed68>

Feature importance

Feature	Importance
place_odds	1128
race_class	1127
win_odds	1010
draw	770
declared_weight	638
actual_weight	569
horse_country_NZ	547
horse_country_AUS	380
config_C	364
venue_ST	355

Top 10 Important Features
with LightGBM models