Final Model Metrics: Random Forest Regressor

Features

```
['travel distance diff', 'latitude diff', 'longitude diff',
    'games back to back percentage game window999 diff',
    'future Away game percent day window999 diff',
    'future home game percent day window999 diff',
    'away game percent day window999 diff',
    'games back to back count game window999 diff',
    'home game percent day window999 diff',
    'future Away game percent day window12 diff',
    'game count day window999 diff',
    'future home game percent day window12 diff',
    'games back to back percentage game window12 diff', 'season 2011-12',
    'home game percent day window12 diff', 'game date diff diff',
    'future home game count day window12 diff',
    'away game percent day window12 diff', 'team id a 1610612751',
    'future game count day window999 diff',
    'home game count day window999 diff',
    'future Away game percent day window8 diff',
    'away game percent day window8 diff',
    'future home game percent day window8 diff',
    'home game percent day window8 diff',
    'away game count day window999 diff', 'game count day window12 diff',
    'future game count day window12 diff',
    'home game count day window8 diff', 'home game count day window12 diff',
    'games back to back percentage game window5 diff',
    'away game count day window12 diff', 'team id a 1610612747',
    'future game count day window8 diff',
    'future Away game count day window8 diff',
    'games back to back count game window12 diff',
    'game count day window8 diff', 'game count day window5 diff',
    'future game count day window2 diff',
    'away game count day window2 diff', 'spread a',
    'NET RATING cma999 diff', 'PIE cma999 diff',
    'strength of schedule diff', 'opp losses diff', 'PIE cma12 diff',
    'E NET RATING cma12 diff', 'away home cma999 diff', 'pf cma999 diff',
    'fg3a cma12 diff', 'E NET RATING cmax5 diff', 'lc max MIN cma5 diff',
```

```
'lc_max_POSS_cma5_diff', 'spread_cma12_diff', 'lc_max_MIN_cma12_diff', 'opp_opps_win_pct_diff', 'w_pct_cma12_diff', 'EFG_PCT_cma999_diff', 'Ic_sum_POSS_cmax5_diff', 'E_OFF_RATING_cma999_diff', 'lc_sum_TS_PCT_cma999_diff', 'PIE_cma5_diff', 'E_DEF_RATING_cma12_diff', 'w_pct_cma5_diff', 'lc_mean_TS_PCT_cma5_diff', 'AST_RATIO_cmax5_diff', 'lc_mean_EFG_PCT_cmax999_diff', 'w_pct_cmax5_diff', 'wins_diff', 'lc_max_AST_TOV_cmax999_diff', 'lc_sum_AST_RATIO_cma5_diff', 'NET_RATING_cma12_diff', 'pf_cmax999_diff', 'lc_sum_NET_RATING_cmax999_diff', 'lc_max_AST_TOV_cmax12_diff', 'lc_sum_AST_PCT_cmax5_diff', 'lc_sum_AST_PCT_cmax5_diff', 'lc_sum_AST_PCT_cmax5_diff', 'lc_sum_AST_PCT_cmax5_diff', 'lc_max_MIN_cmax5_diff', 'E_NET_RATING_cma5_diff', 'E_NET_R
```

Hyperparameters

```
{'memory': None,
'steps': [('randomforestregressor',
 RandomForestRegressor(criterion='mae', max_depth=10, min_samples_split=100,
               n estimators=200, random state=47))],
'verbose': False,
'randomforestregressor': RandomForestRegressor(criterion='mae', max_depth=10,
min samples split=100,
             n estimators=200, random state=47),
'randomforestregressor bootstrap': True,
'randomforestregressor ccp alpha': 0.0,
'randomforestregressor criterion': 'mae',
'randomforestregressor max depth': 10,
'randomforestregressor max features': 'auto',
'randomforestregressor max leaf nodes': None,
'randomforestregressor max samples': None,
'randomforestregressor min impurity decrease': 0.0,
'randomforestregressor min impurity split': None,
'randomforestregressor min samples leaf': 1,
'randomforestregressor min samples split': 100,
'randomforestregressor min weight fraction leaf': 0.0,
'randomforestregressor n estimators': 200,
```

'randomforestregressor__n_jobs': None,

'randomforestregressor__oob_score': False,

'randomforestregressor__random_state': 47,

'randomforestregressor_verbose': 0,

'randomforestregressor_warm_start': False}

Performance Metrics

Model Metrics

	MAE	MAPE
Random Forest	9.687	134.838
Gradient Boosting	9.685	133.491
Linear Regression	9.708	111.222