Interpreting the Regression Parameters: Takeaways

Syntax

- Instantiating a `LogisticRegression` object:

```
from sklearn.linear_model import LogisticRegression
model = LinearRegression()
```

- Fitting a `LogisticRegression` object to data:

```
model.fit(X, y)
```

- Returning the intercept and coefficients of a fitted model:

```
model.intercept_
model.coef_
```

- Returning the predicted success probabilities for a set of given observations:

```
model.predict_proba(X)
```

Concepts

- Predictors influence the probability linearly through the log-odds.

- Predictors also represent percent changes of the odds; they also represent odds ratios equivalently.

- Success probabilities can also be predicted, but they are not as useful as knowing the odds or log-odds.