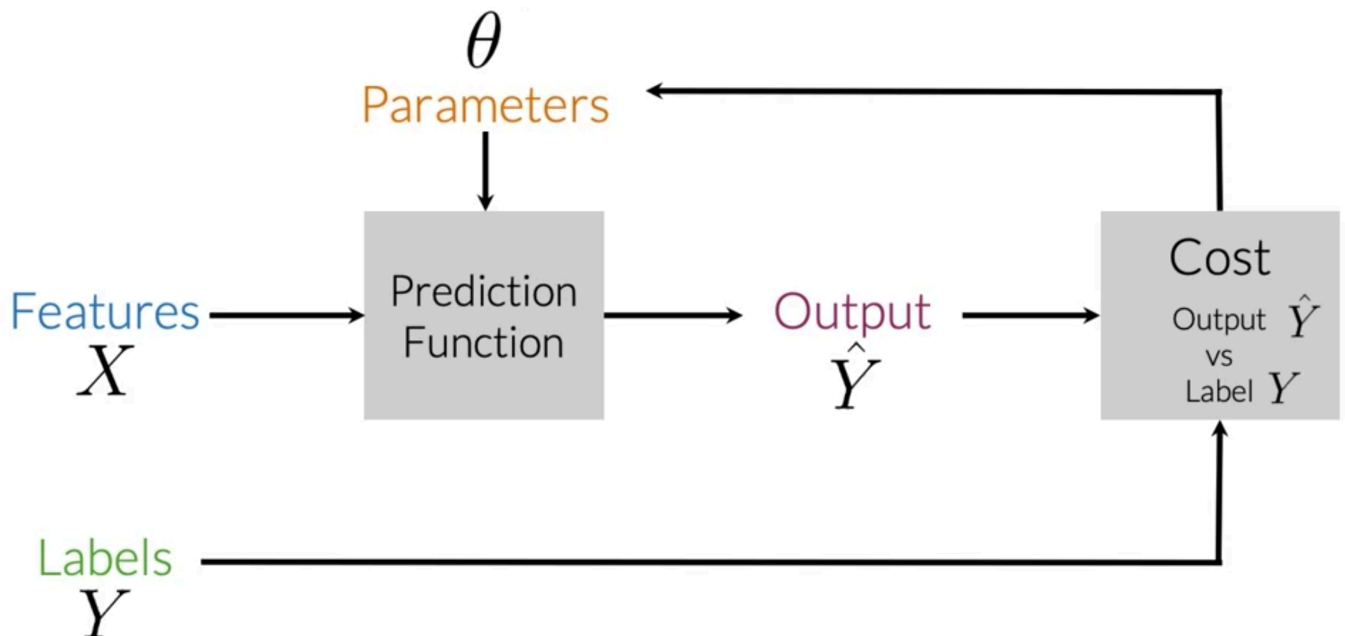




# Supervised ML & Sentiment Analysis

In supervised machine learning, you usually have an input  $X$ , which goes into your prediction function to get your  $\hat{Y}$ . You can then compare your prediction with the true value  $Y$ . This gives you your cost which you use to update the parameters  $\theta$ . The following image, summarizes the process.



To perform sentiment analysis on a tweet, you first have to represent the text (i.e. "I am happy because I am learning NLP") as features, you then train your logistic regression classifier, and then you can use it to classify the text.

