

< Advice for applying machine learning - Deciding what to try next >

* Debugging learning algorithm

ex) housing price prediction problem을 해결하기 위해 regularized linear regression을 implement

$$J(\vec{w}, b) = \frac{1}{2m} \sum_{i=1}^m (f_{\vec{w}, b}(\vec{x}^{(i)}) - y^{(i)})^2 + \frac{\lambda}{2m} \sum_{j=1}^n w_j^2$$

⇒ 만약 이 model (hypothesis)을 사용하여 training set에 있는 새로운 데이터는 적용하자 예측메러가 너무 크다면?

- ⇒
- get more training examples
 - Try smaller sets of features
 - Try getting additional features
 - Try adding polynomial features ($x_1^2, x_2^2, x_1 x_2, \text{etc}$)
 - Try decreasing/increasing λ (lambda)