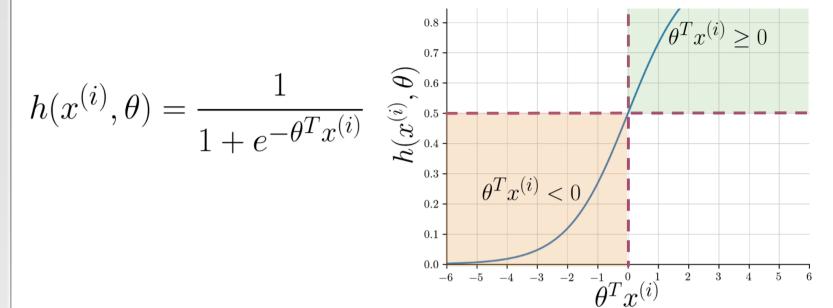


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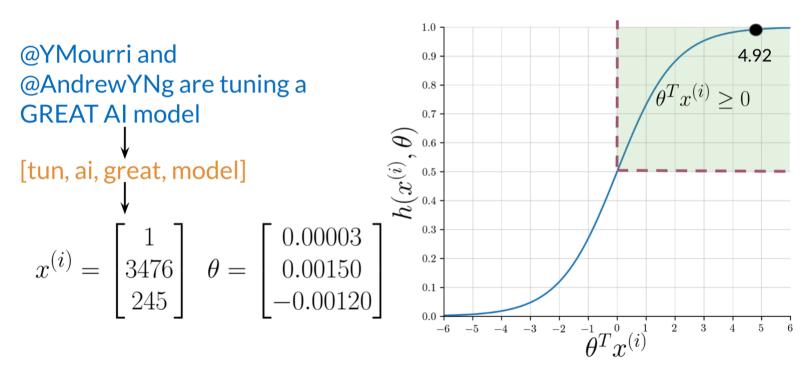
Lecture: Logistic Regression

- Video: Welcome to the NLP Specialization
 4 min
- Video: Welcome to Course 1
- Reading:
 Acknowledgement Ken
 Church
 10 min
- Video: Week Introduction 35 sec
- Video: Supervised ML & Sentiment Analysis
 2 min
- Reading: Supervised ML & Sentiment Analysis 2 min
- Video: Vocabulary & Feature Extraction 2 min
- Reading: Vocabulary & Feature Extraction
 2 min
- Video: Negative and Positive Frequencies 2 min
- Video: Feature Extraction with Frequencies
 2 min
- Reading: Feature
 Extraction with
 Frequencies
 10 min
- Video: Preprocessing 3 min
- Reading: Preprocessing
 10 min
- **Lab:** Natural Language



Note that as $\theta^T x^{(i)}$ gets closer and closer to $-\infty$ the denominator of the sigmoid function gets larger and larger and as a result, the sigmoid gets closer to 0. On the other hand, as $\theta^T x^{(i)}$ gets closer and closer to ∞ the denominator of the sigmoid function gets closer to 1 and as a result the sigmoid also gets closer to 1.

Now given a tweet, you can transform it into a vector and run it through your sigmoid function to get a prediction as follows:



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