

# W207— Applied Machine Learning

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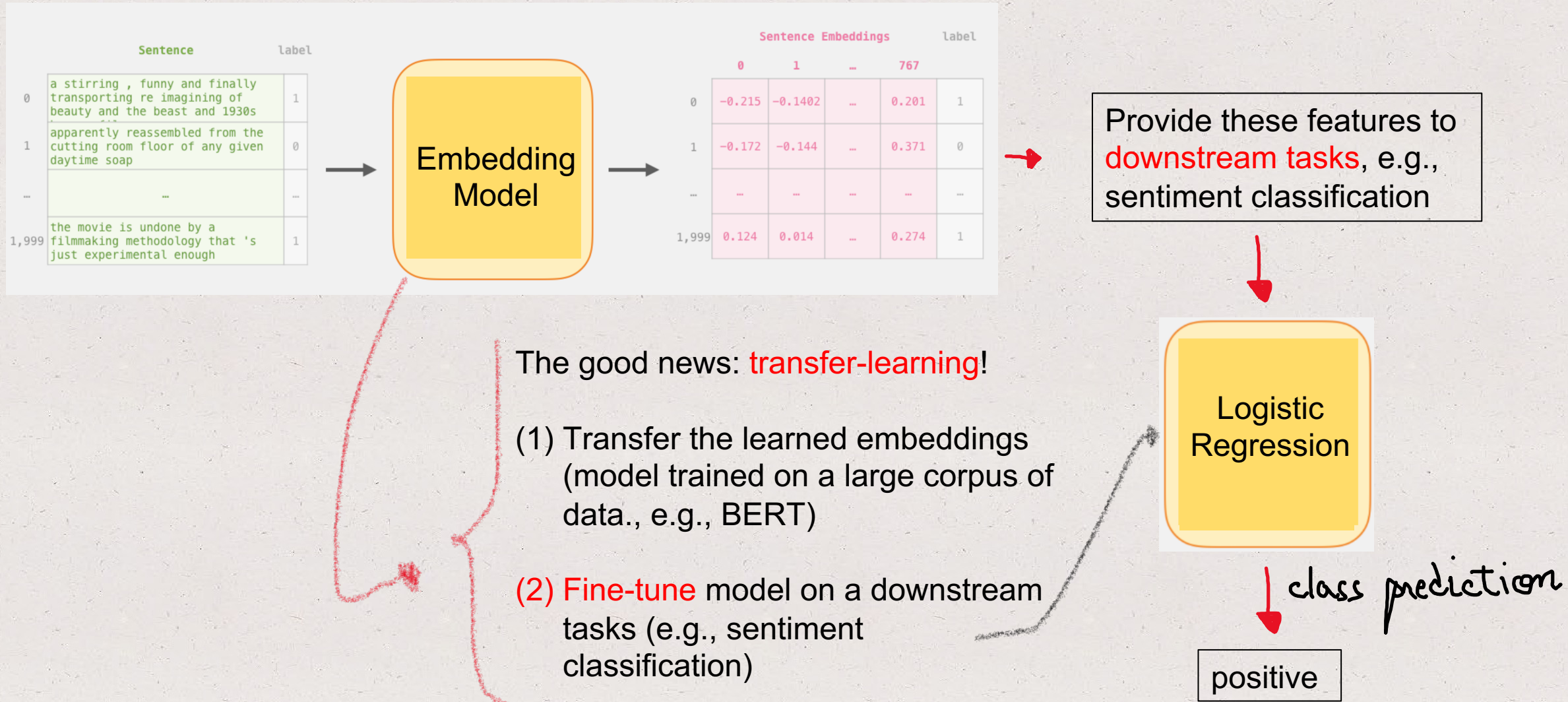
School of Information

UC Berkeley

Convolutional Neural Networks (CNNs)



# Last week – Sequences and Embeddings





# Today's learning objectives

- Convolutional Neural Networks (CNNs)
- Application: Sentiment analysis based on **drug reviews**



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- Convolutional Neural Networks (CNNs)
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First paper using CNN for Text data was published in 2014:

<https://arxiv.org/abs/1408.5882>

Convolutions  
(applied to)

- 1D: text data
- 2D: image data

Lots of hyperparam to tune! (e.g. padding, stride, kernel size)