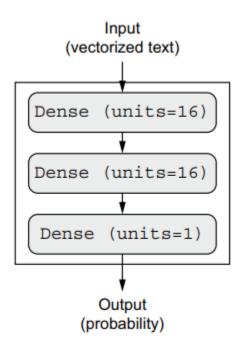
## Classifying movie reviews (You will develop the ability to determine whether movie reviews are positive or negative by analyzing their textual content.)

- The IMDB dataset, like MNIST, is conveniently available in Keras (accessible through tensorflow.keras.datasets import imdb). Setting the argument num\_words=10000 ensures that only the top 10,000 most frequently occurring words in the training data are retained.
- 2. Ensure uniform length for your lists by padding them, transforming them into integer tensors of shape (samples, max\_length). Begin your model with a layer capable of handling such integer tensors.
- 3. Convert your lists into multi-hot encoded vectors, representing them as vectors of 0s and 1s. For example, the sequence [8, 5] would be transformed into a 10,000-dimensional vector where all elements are 0s except for indices 8 and 5, which are 1s.
- 4. Construct your model architecture with layers utilizing rectified linear unit (relu) activation functions, culminating with a sigmoid activation function in last layer.



- 5. Confirming the validity of your method.
- 6. Visualizing the training and validation loss.
- 7. Illustrating the training and validation accuracy through plots.