

First example of neuronal
network deployment:

Quick recap:

```
[ ]: import keras
      from keras.models import Sequential
      from keras.layers import Activation
      from keras.layers.core import Dense
      from keras.optimizers import Adam
      from keras.metrics import categorical_crossentropy
```

```
[ ]: model = Sequential([
      Dense(units=16, input_shape=(1,), activation='relu'),
      Dense(units=32, activation='relu'),
      Dense(units=2, activation='sigmoid')
    ])
```

```
[ ]: model.compile(
      optimizer=Adam(learning_rate=0.0001),
      loss='sparse_categorical_crossentropy',
      metrics=['accuracy']
    )
```

```
[ ]: model.fit(
      x=scaled_train_samples,
      y=train_labels,
      batch_size=10,
      epochs=20,
      shuffle=True,
      verbose=2
    )
```

Format of data!

The Sequential model receives data via `fit()` in form of:
(the `x` and the `y` need to be in the same format)

- **A Numpy array (or array-like), or a list of arrays (in case the model has multiple inputs).**
- A TensorFlow tensor, or a list of tensors (in case the model has multiple inputs).
- A dict mapping input names to the corresponding array/tensors, if the model has named inputs.
- A `tf.data` dataset. Should return a tuple of either (inputs, targets) or (inputs, targets, sample_weights).
- A generator or `keras.utils.Sequence` returning (inputs, targets) or (inputs, targets, sample_weights).

Note that if `x` is a dataset, generator, or `keras.utils.Sequence` instance, `y` should not be specified (since labels will be obtained from `x`)

Classifying more complex input data (text)



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Non-Review Review: Avengers – Endgame

Posted on [April 23, 2019](#) by [Darren](#)

It says a lot about the state of contemporary pop culture that the biggest movie of the year is essentially a clip episode.

Pop culture has always been vaguely nostalgic, evoking an idealised past and reminding audiences of times when the future seemed brighter. After all, much of the New Hollywood canon is explicitly nostalgic, sixties and seventies films that pay loving homage to the thirties and the forties, often explicitly; [The Sting](#), [The Godfather](#), [Paper Moon](#), [Chinatown](#), [Bonnie and Clyde](#). The past has always had a certain allure for cinema, perhaps because that's what pictures have always been; individual moments captured on film and frozen in time, removed from their original context. Film is simply those frozen images run together to create the illusion of movement and life. Every film is a time machine, some are just more explicit than others.



Assembly line.

However, there is something fascinating about the modern wave of nostalgia, the speed at which pop culture is consuming itself. Recent waves of seventies, eighties and nineties nostalgia are still cresting. Earlier this summer, [Captain Marvel](#) channeled some of this nineties nostalgia into blockbuster (and Blockbuster) form. However, it also feels like nostalgia is getting closer and closer to the present, brushing

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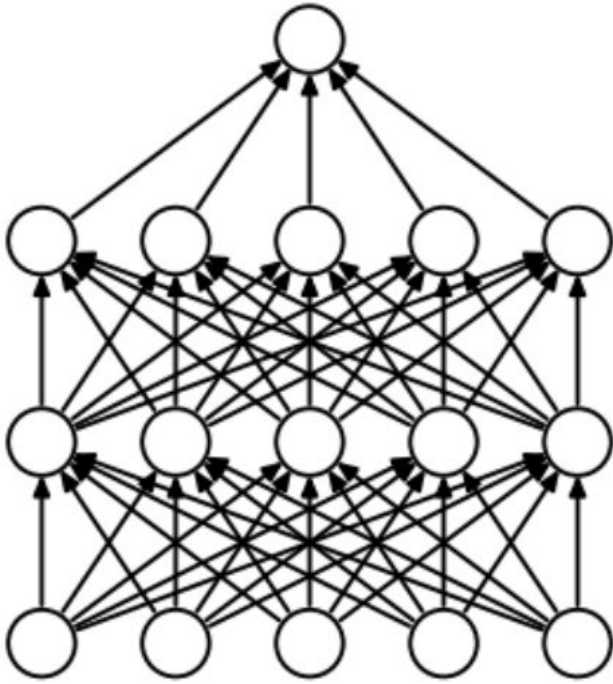
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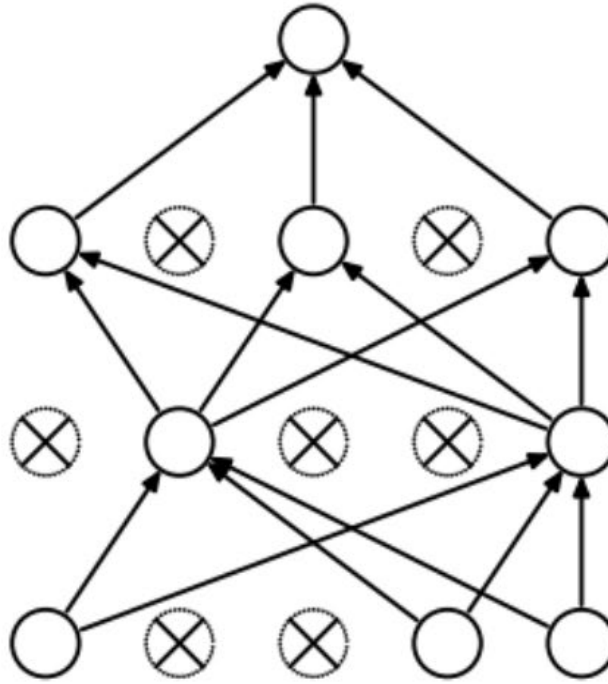
Idea:

- Count words and occurrence of words
- Assign a number to each word (e.g. 1 to the most frequent, 2 to the second most freq)
- Use the text to see if a word occurred (1) or not 0. Need to standardize the text.
- Then we need a good model. Here a model including dropouts is good.

Dropout



(a) Standard Neural Net



(b) After applying dropout.

- More robust
- Double number of iterations required, but increases training speed per iteration
- As each time we drop some neurons, the resulting models has H^2 other representations that are also leading to the same result.

