

Artificial Intelligence

New capacities and
challenges for society and teachers

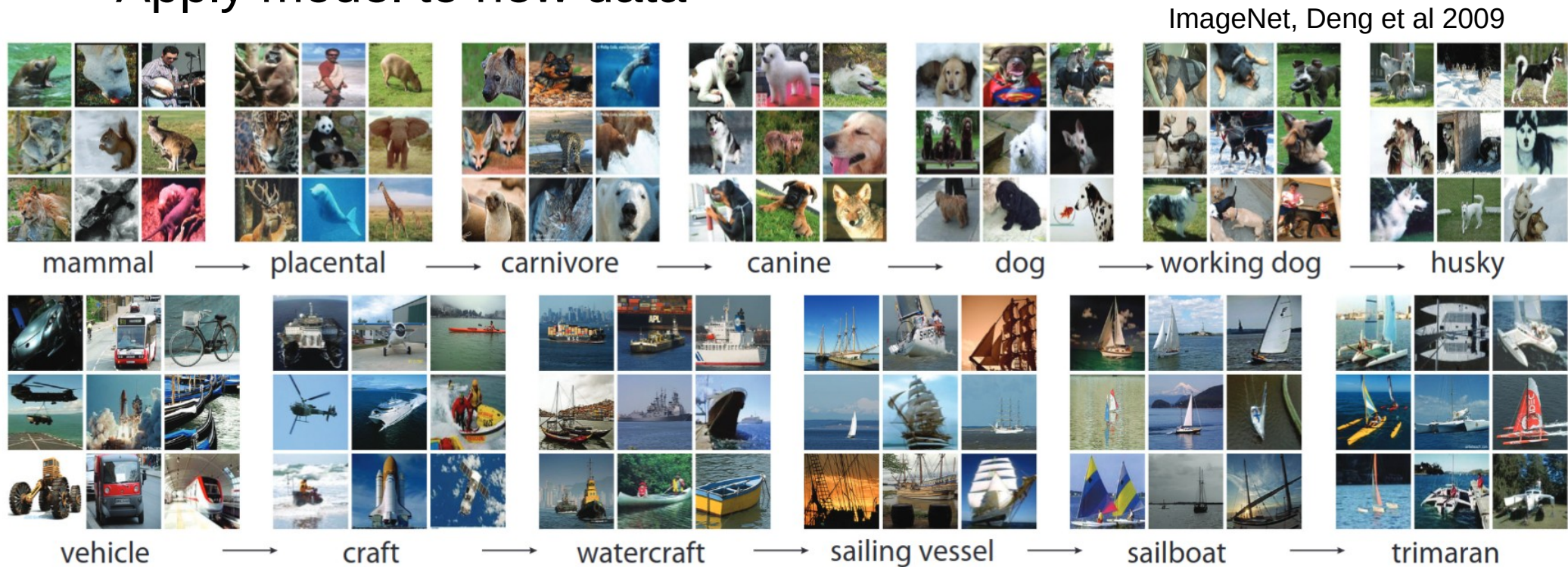
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Method:

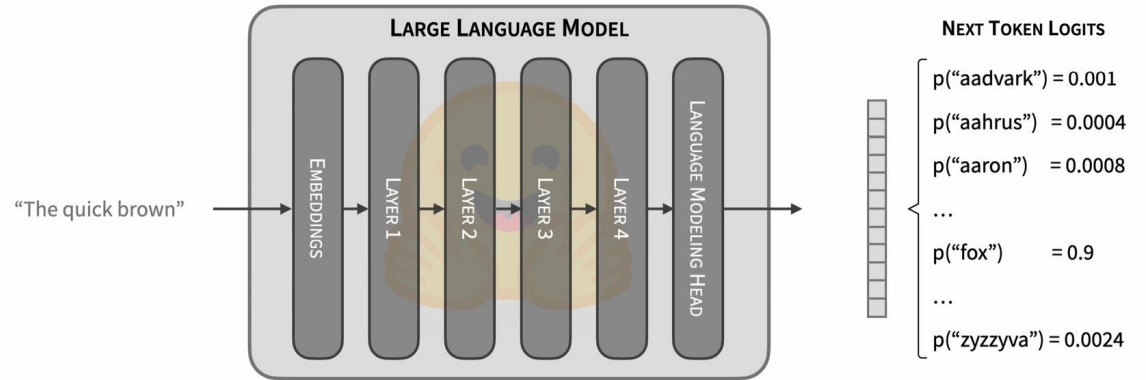
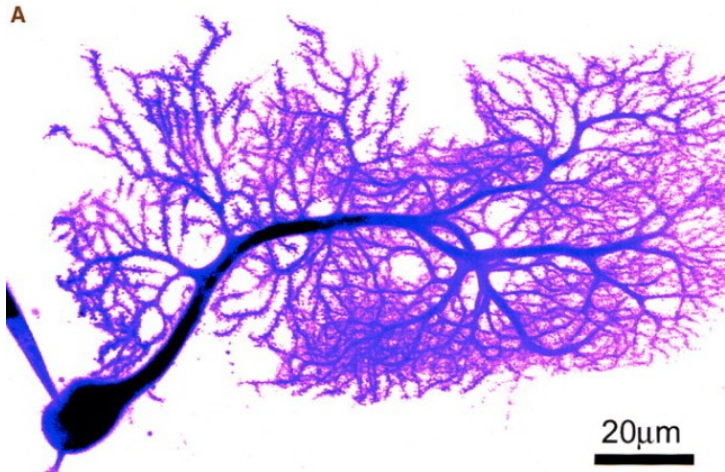
- Collect large dataset (e.g. images & labels)
- “Train” model to fit data
- Apply model to new data



Machine learning models

- Deep artificial neural networks

ideas go back to 1950s, big advances since 2012



Challenges

- Model is a “black box”
- Surprising fragility to some inputs/unreliable
- Societal implications
 - Obsolescence of jobs/skills that are easy for AI
 - Dangerous applications
 - Models may reinforce biases

Like lecture:

<https://www.channel1.ai/>

“Cheating” with a language model

How can I write a Python function to generate the nth Fibonacci number?

- Here's an example of how you could implement a fibonacci generator in python:

```
def fib(n):  
    if n <= 0 or n == 1:  
        return n  
    else:  
        return fib(n-1) + fib(n-2)
```

This code defines a recursive function called `fib` that takes an integer argument, `n`. If `n` is less than zero or equal to one, it returns `n`. Otherwise, it calculates the sum of the first two fibonacci numbers and returns that value for `n-1`, then adds that value with the result from calculating the sum of the first two fibonacci numbers again for `n-2`, and so on until `n=0`. At this point, the function returns the accumulated values.

To use this function, you would call it like this:

```
fib5 = fib(5) # Returns 8  
fib10 = fib(10) # Returns 55
```

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