

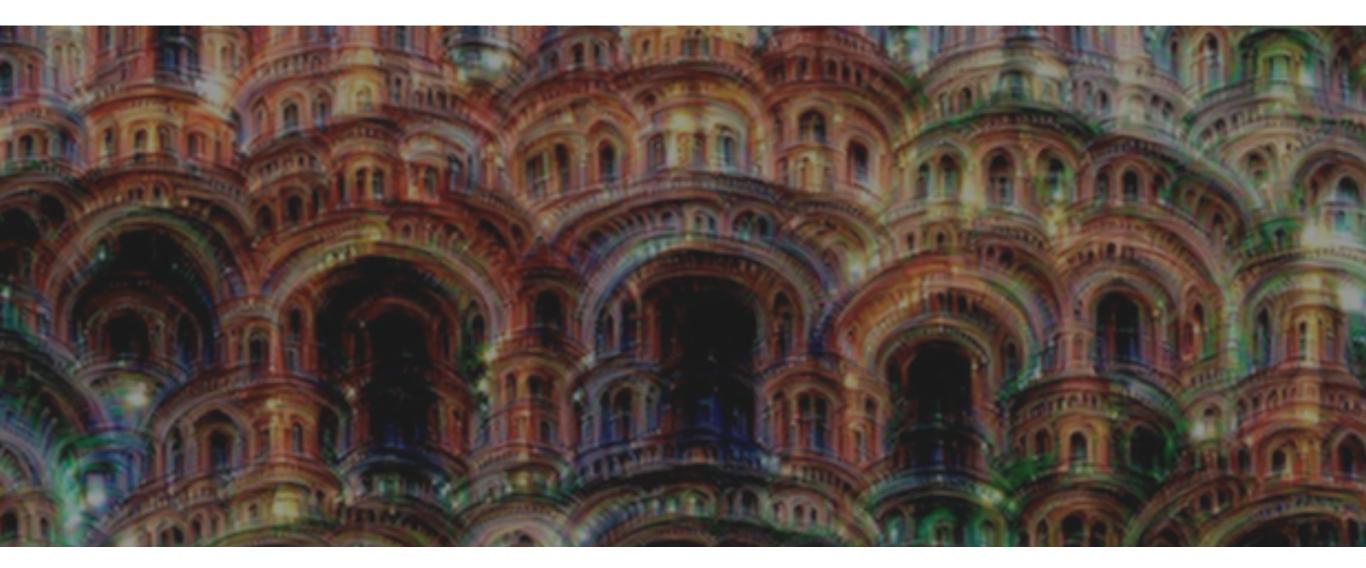




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#### Introduction to Artificial Intelligence

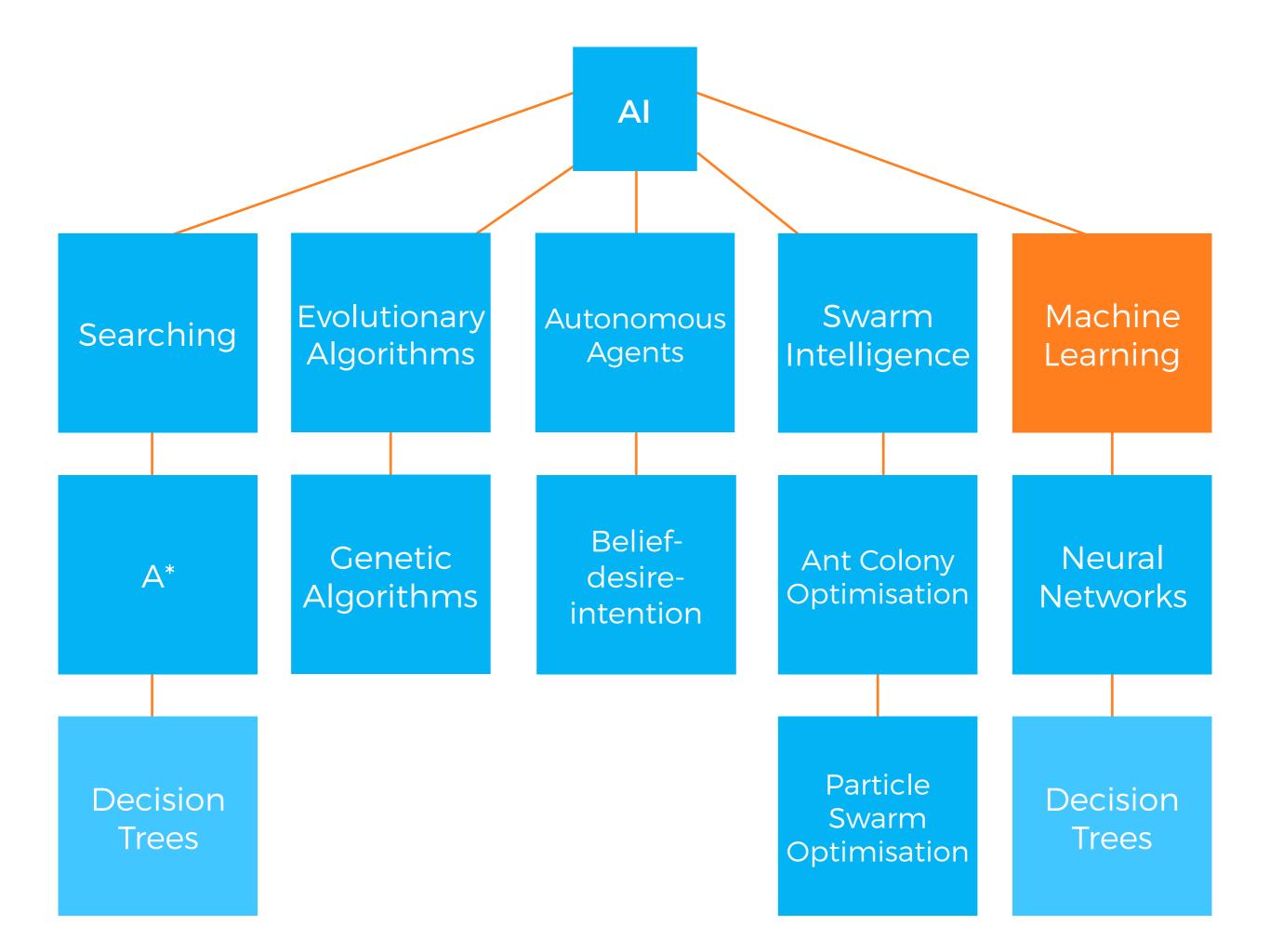
### What's Al?

# How to make computers do things which, at the moment, people do better.

Solve problems which cannot be solved or cannot be solved optimally by common computation algorithms.

# An algorithm that learns, or is trained.

# Common Al Algorithms



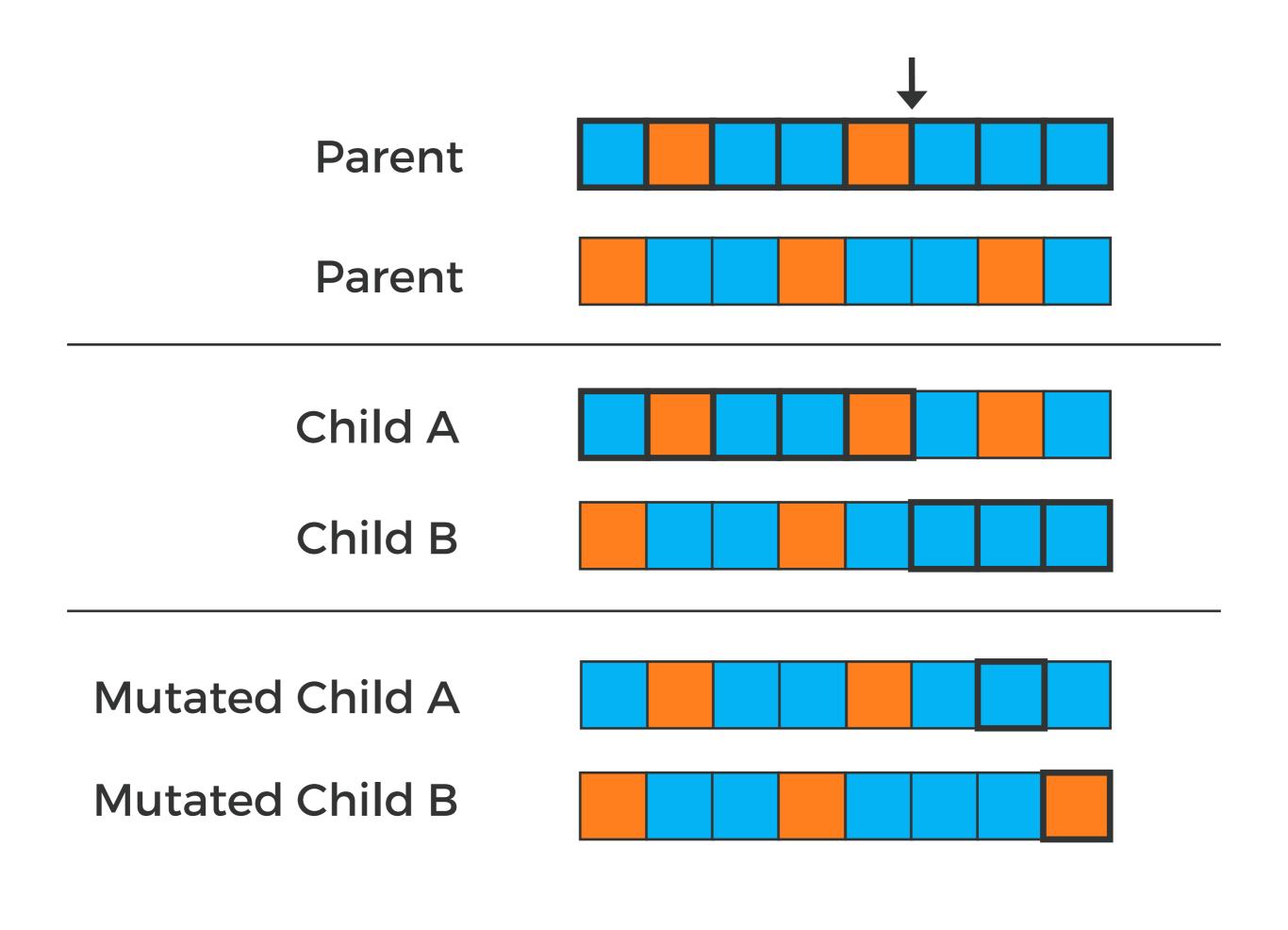
#### A\* Search

## Useful for path finding



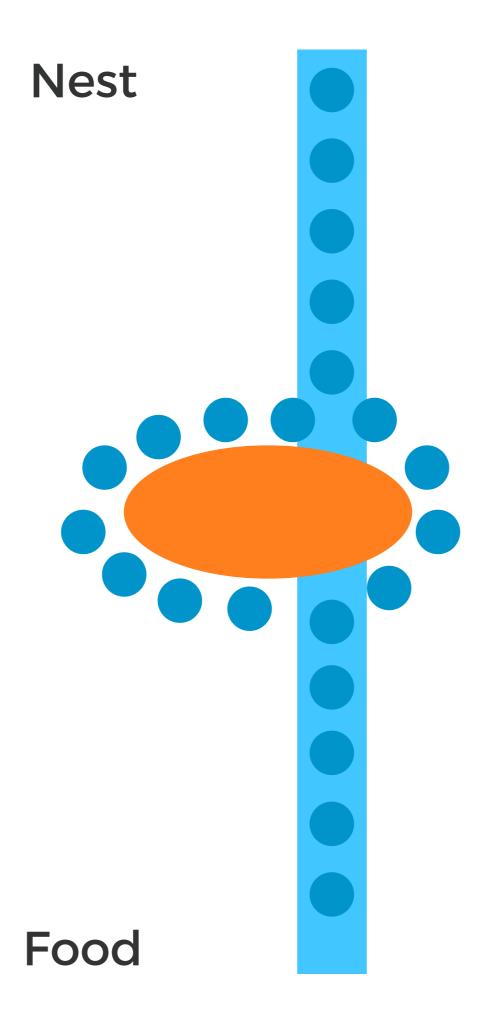
### Genetic Algorithm

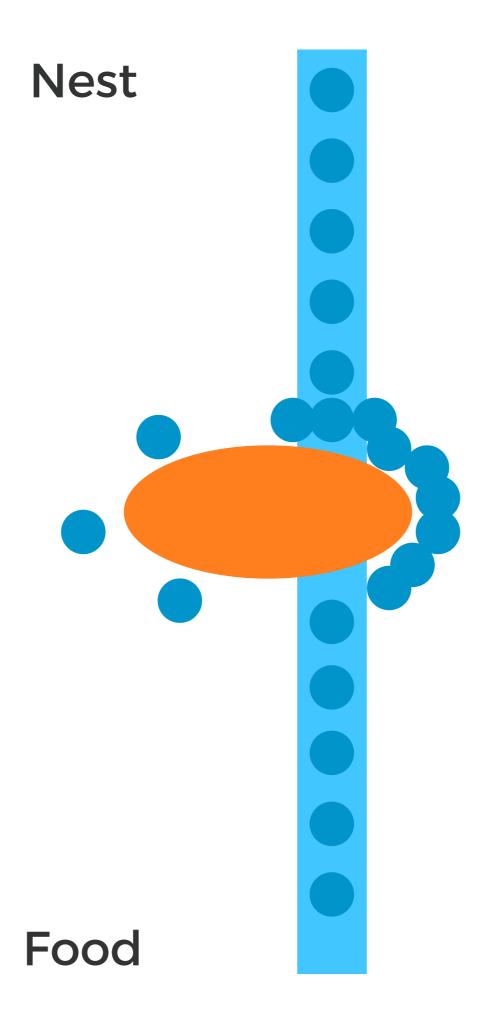
# Useful to determine optimised solutions by evolution

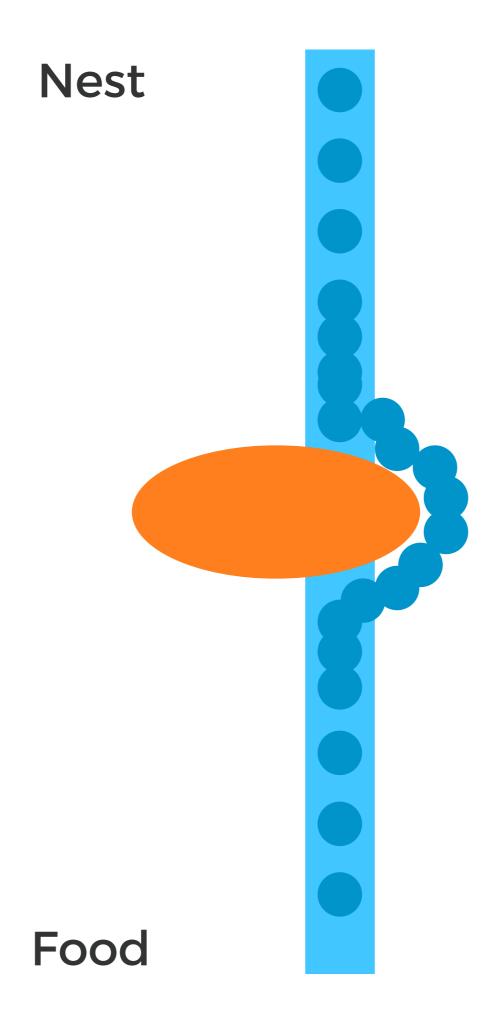


## Ant Colony Optimisation

Useful for path finding





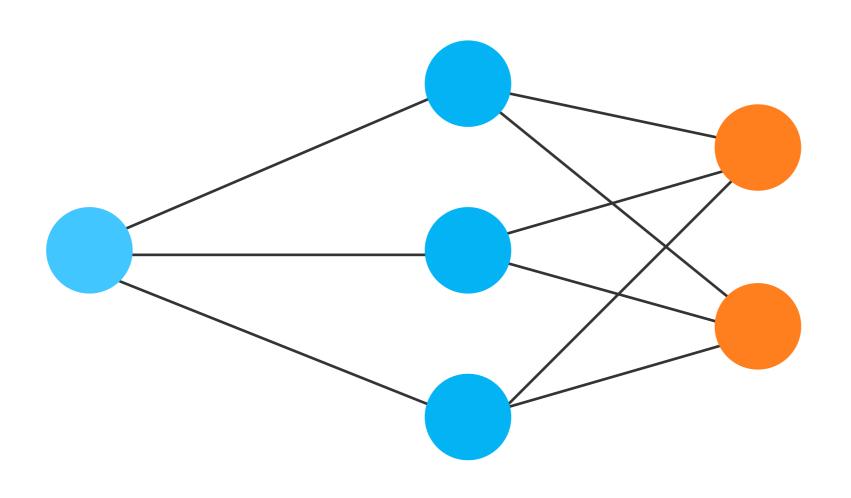


#### Neural Network

Loosely modelled on the human brain. Useful for classification and optimisation

Input Node Hidden Nodes

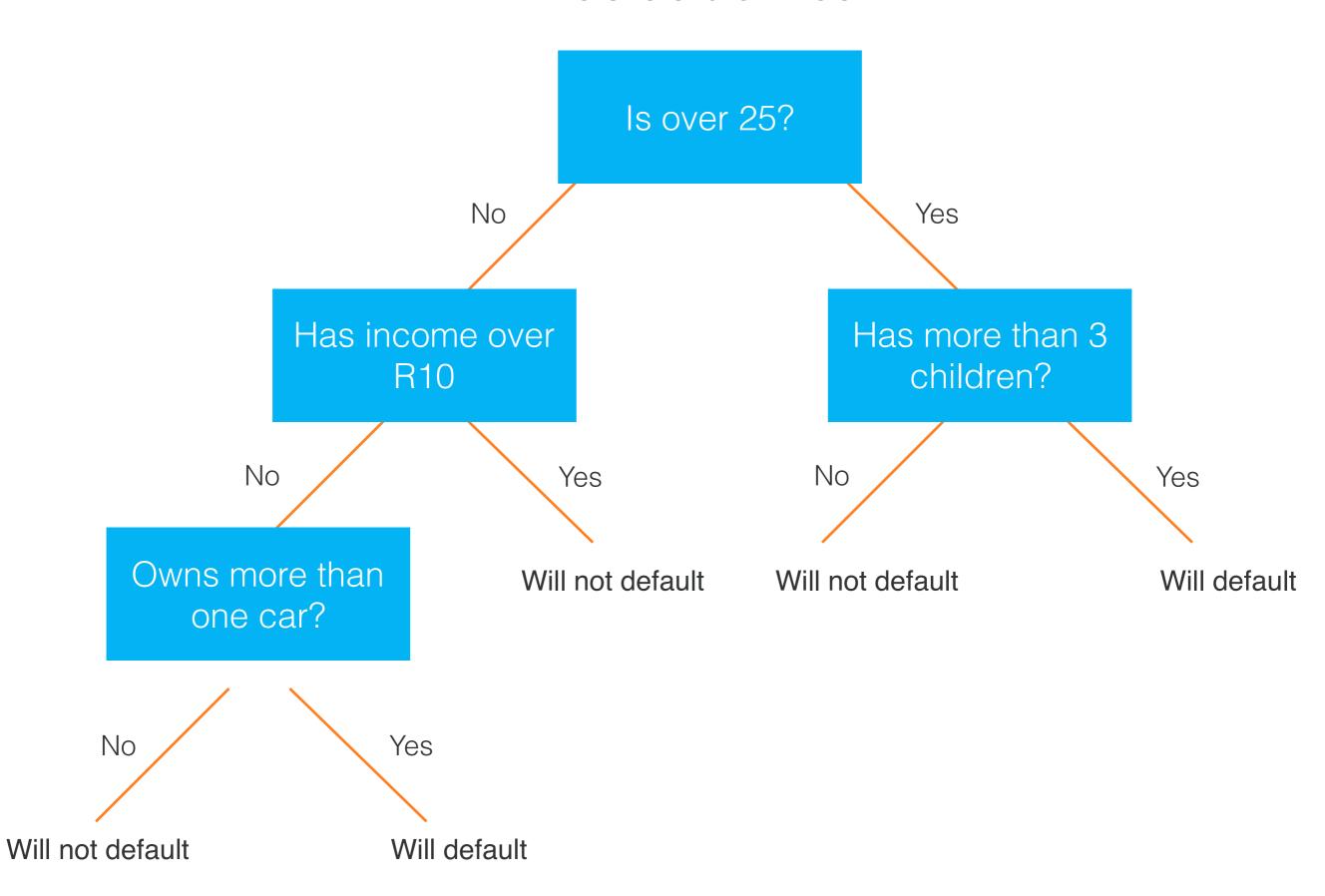
Output Nodes



#### Decision Tree

# Useful when playing turn based games and classification

#### Will default on loan?



We are on the edge of change comparable to the rise of human life on Earth.

- Vernor Vinge





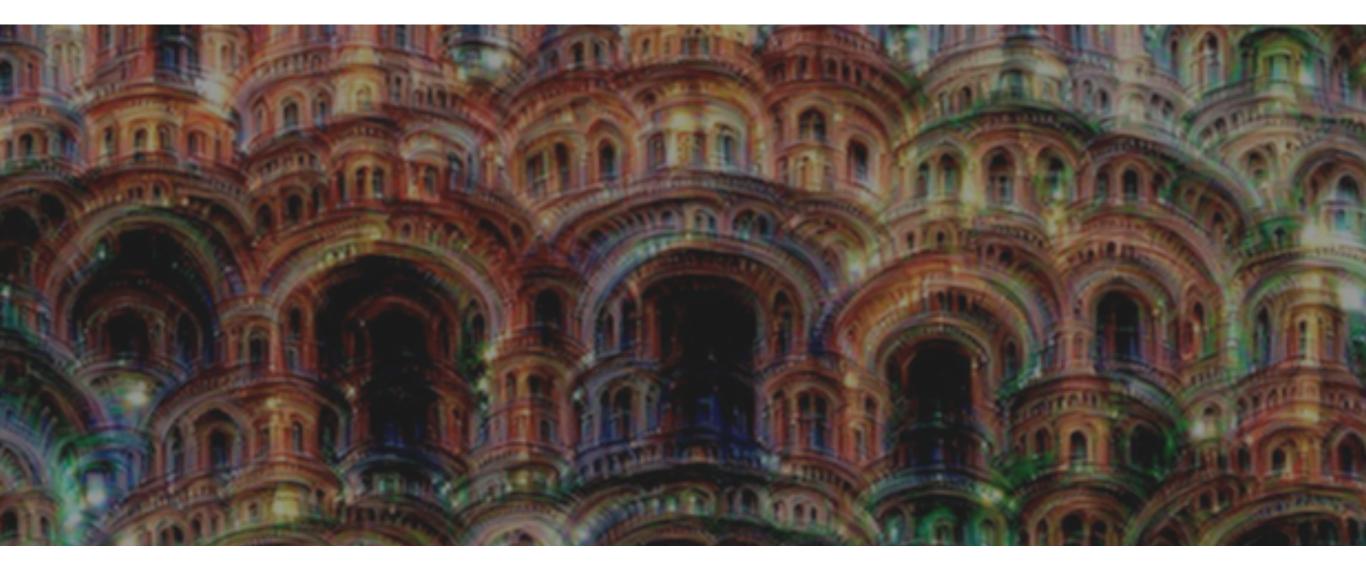


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