

Apa Itu Deep Learning

Computer Engineering School

<https://cesindo.top>

Apa Perbedaan Antara AI, ML, dan DL ?

ARTIFICIAL INTELLIGENCE

Engineering of making Intelligent Machines and Programs



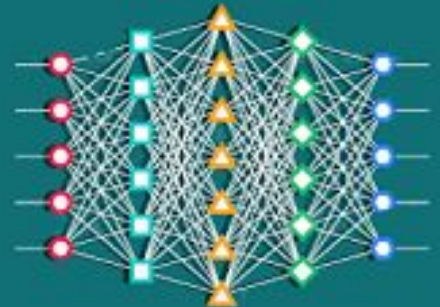
MACHINE LEARNING

Ability to learn without being explicitly programmed



DEEP LEARNING

Learning based on Deep Neural Network



**Artificial
Intelligence**

**Machine
Learning**

Neural Nets

**Deep
Learning**

Dozens of
different ML
methods

Bagaimana Cara Mesin Belajar?



```
graph TD; A((Machine Learning components)) --- B(dataset); A --- C(features); A --- D(algorithm);
```

Machine Learning components

dataset

algorithm

features



Machine Learning

```
graph TD; ML[Machine Learning] --> S[Supervised]; ML --> SS[Semi-supervised]; ML --> R[Reinforcement]; ML --> U[Unsupervised];
```

Supervised

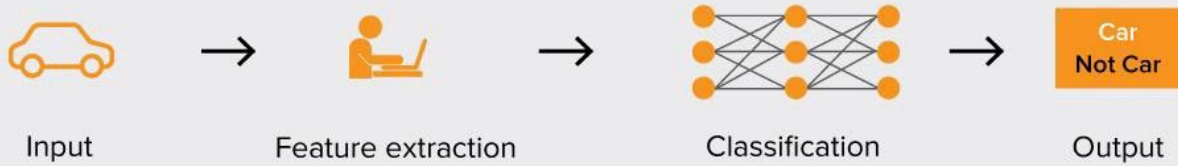
Semi-supervised

Reinforcement

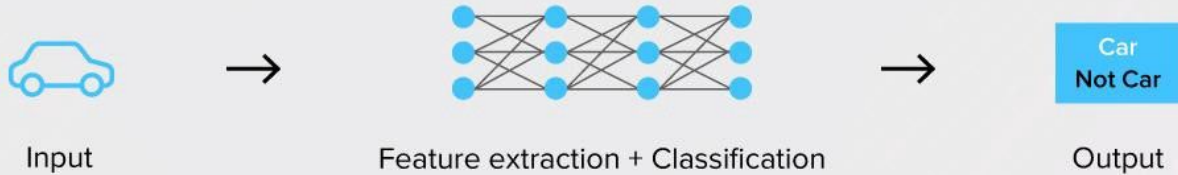
Unsupervised

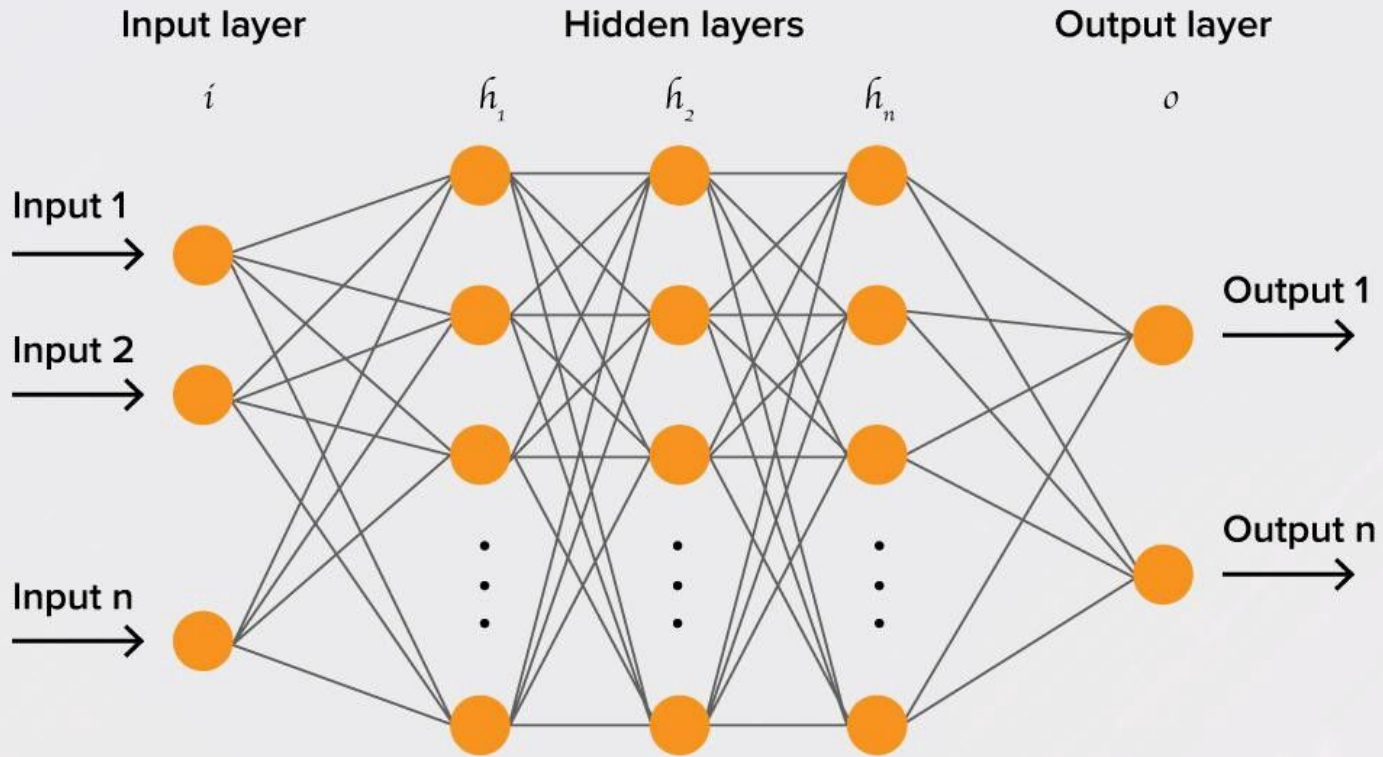
Deep Learning

Machine Learning



Deep Learning





Pengaplikasian Deep Learning

1. Pengenalan Gambar (Image Recognition)
2. Natural Language Processing (NLP)
3. Prediksi Harga Saham
4. Diagnosa Penyakit
5. Pengenalan teks atau ucapan (Text/Speech Recognition)
6. Robotika
7. Mobil Tanpa Pengemudi (Self-driving Cars)

Referensi & Sumber Gambar

1. <https://medium.com/ai-in-plain-english/artificial-intelligence-vs-machine-learning-vs-deep-learning-whats-the-difference-dccce18efe7f>