

UE 4TTV417U

Artificial Intelligence
Course presentation
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Lecture 1

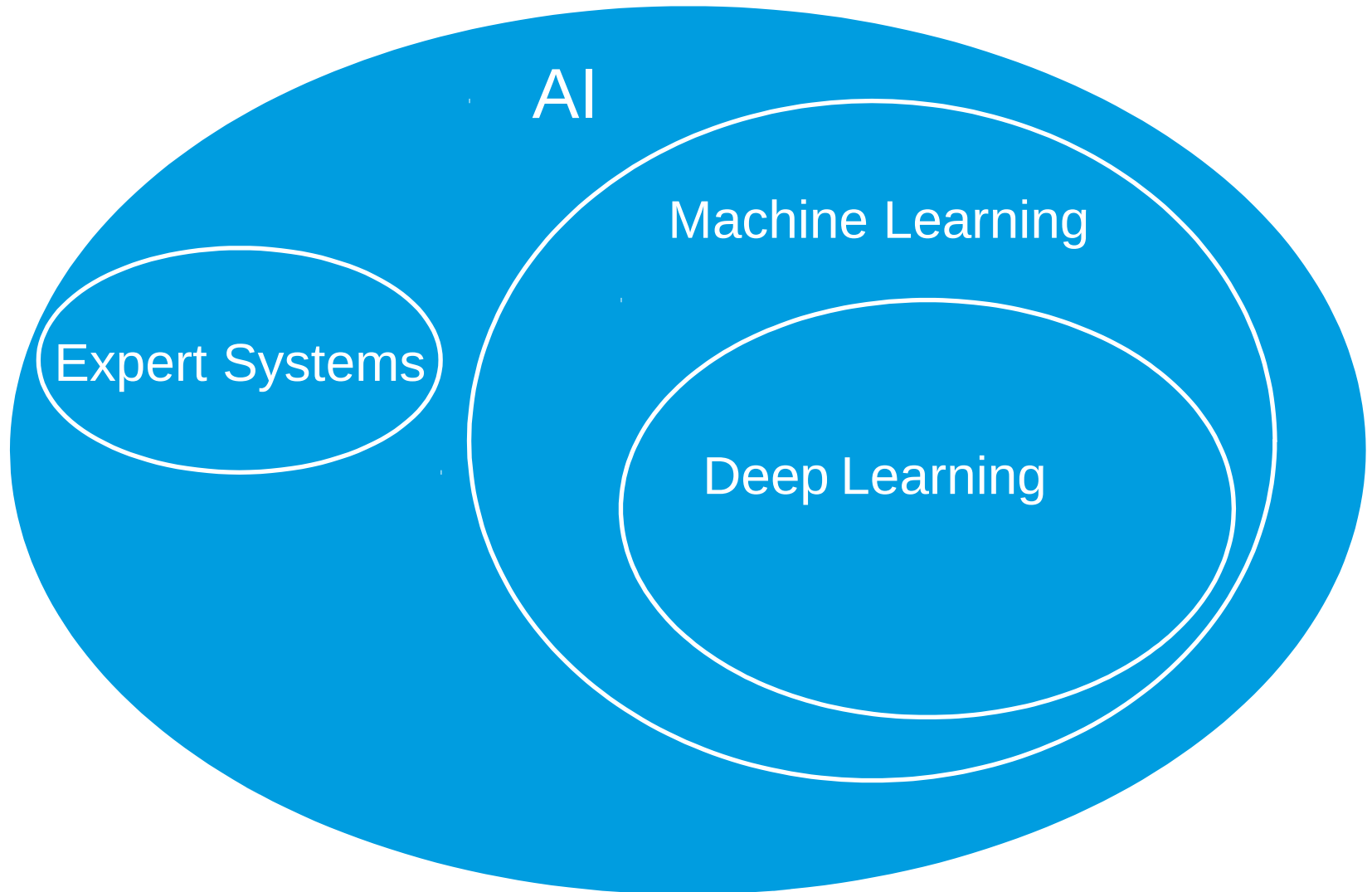
Summary

1. Introduction. Machine learning
2. Clustering : K-means HAG, DB_Scan
3. Supervised Learning, KNN
4. Decision Trees, Bayesian classification
5. Neural Networks
6. Deep Learning. Convolutional Neural Networks

What do you need to know : foundations of mathematics from A-levels and 1st year general course at the university
Vector space, matrix calculus and a bit of probability and statistics!

We will show you application examples and you will “look and feel” Artificial Intelligence

AI today : shift of the paradigm

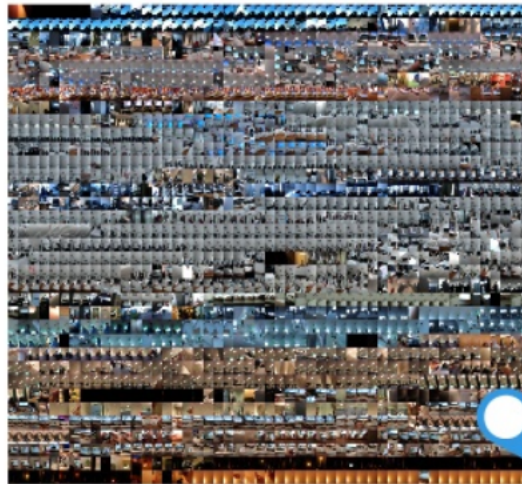


Application example(1)

→ Lifelogging (K. Gurin, A. Smeaton DCU)



Segmentation of raw data into units such as events or moments.
These can be enriched automatically with metadata, increasing their value.



Events are analogous to our episodic memory

<http://www.slideshare.net/cgurrin/biohackers-summit-2015-lifelogging-a-new-era-of-personal-data>

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