AI3002 - Introduction to Brain and Neuroscience

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Experiment 1:

Sense of Touch as Past experience:

We all know that the pain that occurred when touching a hot object is different from that of when pricked with a pin. But the question is how do we able to distinguish these two events? Our brain stores information(touching a hot object, pricked with a pin) from past experiences based on different parameters or factors for example the area of impact(high for a hot object, low for the pin) which can be able to distinguish the pain accordingly.

Experiment 2:

Sense of hearing as a Symmetry rule and Past Experience:

When we hear the voice of our friend or a famous celebrity, we can easily recognize who the person is. How can we do that?

Now consider we just heard an unfamiliar voice, can we able to recognize the person? What is the difference and why can we able to recognize a familiar voice but not a non-familiar one?

The reason is that the brain stores the information from our past experiences by grouping the similar voices that were heard. And when heard the voice is heard again the stored information can be easily remembered and we can able to find the person. But when a new voice is heard, as the data is not stored in our brain, it may not be possible to recognize the person.