11-11-2020 ANN with Keral Q What are the advantages of wing ANNS ? versable, scalable and poweful. They are: Q Can you share some example where ANNs are being used?

Alpha Go, Google images, Sin, Youtube Q Why is there tremendeus increase in computing power since 1990 ? Moore & law: no. of integrated circuits
have doubled every year in last 50 years.

April availability become of gaming industry.

School computing. Q Why is there renewed interest in ANN?

Huge amounts of data availability. - Tremendous A in computing power. -> Training algorithms have improved. -> Some theoretical limitations of ANNs have

turned out to be benign in practice. Example: ANNs were considered doomed because they were likely to get stuck in local ophima. But it turns out that the is tare in practice. And when i't happens, ANNs are fairly close to global optimum. a What u perception? Perception is one of the simplest ANN orchitecture. It is compared of single dagen of The. Each The is connected to all the input. The is known as threshold logic unit. TU is also known al LTU - Linear Houshold unit. special So perception consits of three Neuroni - TLU. When all neurons in a layer is connected to all neurons in prenous layer, then layer is a dense is called a fully connected layer or a dense lays.

Inpute of Perception are fed to special par theough neurone called input neurone. They output what ever input they are fed.
All the input neurons form input layer. An entre bien peature in generally added

(no =1): It is represented by special type

of neuron called a bies neuron. 2 inputs, Q How would a perception of 3 outputs look like ? Ollputi (5) Bias neuron (1) Trout
The layer (duays output s) Input newm ( pass through)