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Siamese Network has two identical sub-networks, sharing weights, which take two inputs and give one output.

Basically, used to find similarity score between the two inputs.

Both sub-networks featurize the inputs, they get combined into single embedding space, then usual sigmoid activation is applied to get the similarity score.

These are trained to minimize the distance between samples of the same class.

Big step forward is in its use at multi-modal problems, ie when inputs are of different types/domains and still, we can get the similarity score.

For more details, have a look at https://lnkd.in/difE5Ev5 by **Debashis Das Chakladar** et al. Their proposal is combining two biometric traits (EEG and Signature) using a multimodal Siamese Neural Network (mSNN) for improved user verification.

Use in Multimodal Search is shown at https://lnkd.in/dG3J932Q by **Henry AI Labs**

A good tutorial at https://lnkd.in/dv4BPpX9 by **Laura Leal-Taixé**

#ai #artificialintelligence #ml #machinelearning #datascience #multimodal #siamesenetworks #neuralnetworks

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