



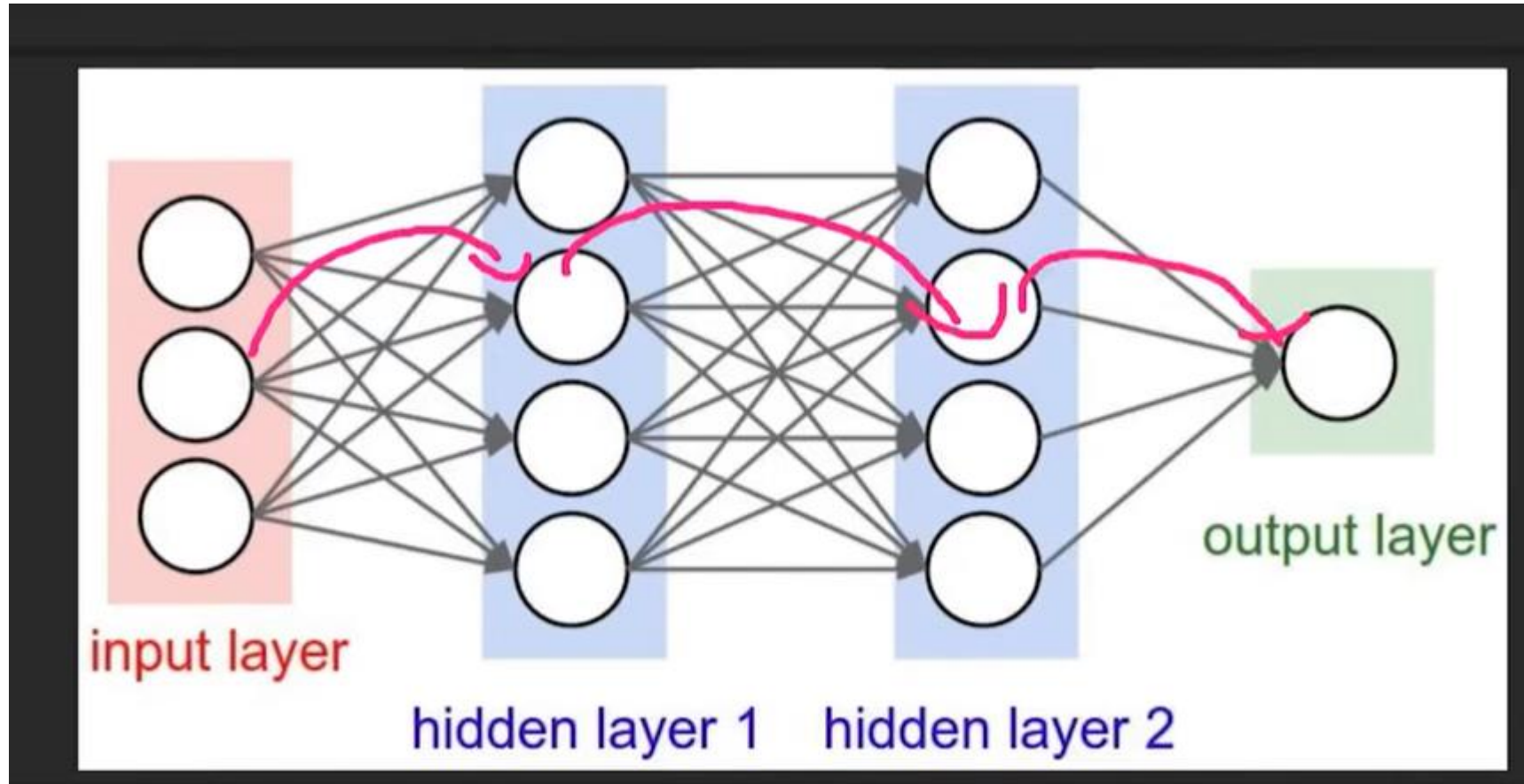
ANN, RNN, CNN

Aksadur Rahman

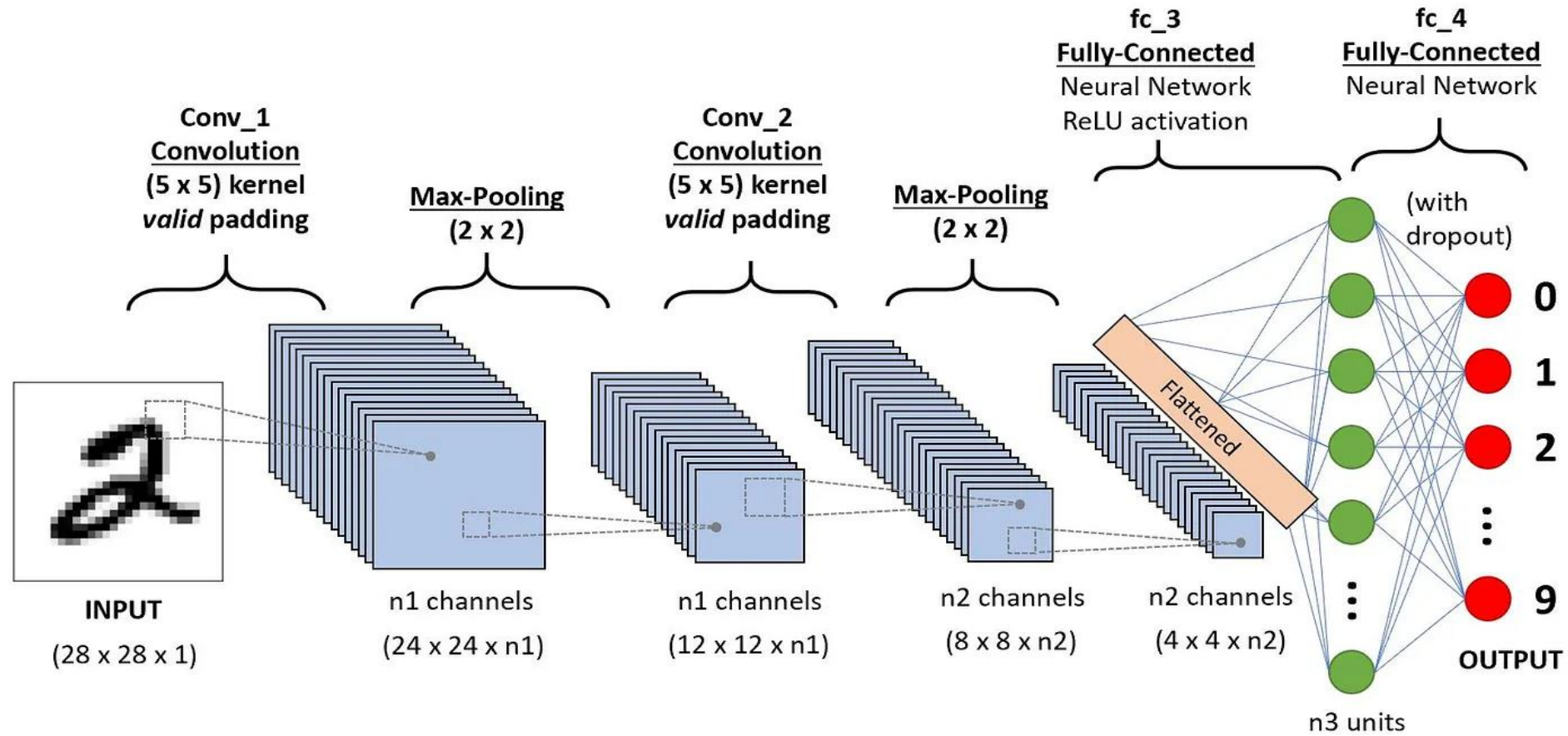
aksadur@yahoo.com





Artificial Neural Network (ANN) Feed Forward Neural Network (FFNN)

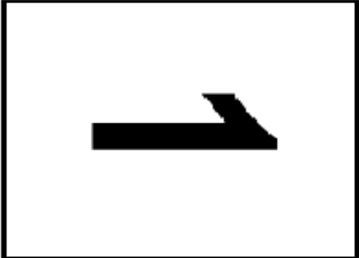





Convolutional Neural Network (CNN)



Convolutional Neural Network (CNN)

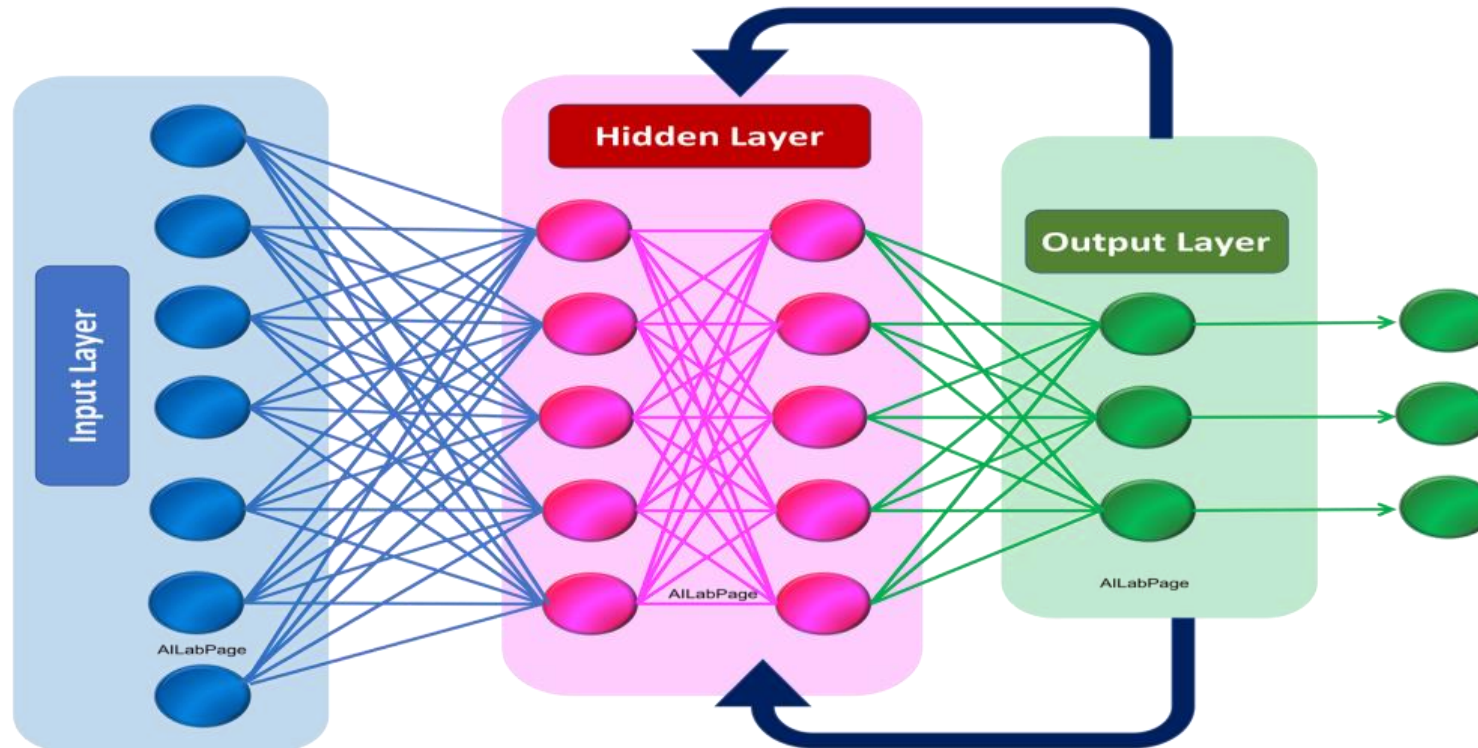
 ANN can recognize the number 

 ANN can not recognize but CNN can 

 ANN can not recognize but CNN can 



Recurrent Neural Networks



+ New chat

📄 US President Identity Q ✎ 🗑️

📄 Chain Rule Definition

🗑️ Clear conversations

🌙 Dark mode

🗨️ OpenAI Discord

🔗 Updates & FAQ

🚪 Log out

A who is the president of America

As of my knowledge cut-off, the President of the United States is Joe Biden.



A What is his age

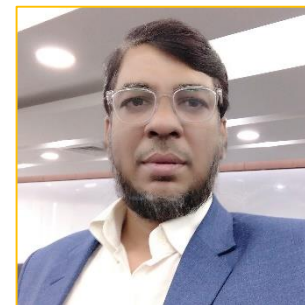
Joe Biden was born on November 20, 1942, so as of February 8, 2023, he is 80 years old.



🔄 Regenerate response

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[ChatGPT Jan 30 Version](#). Free Research Preview. Our goal is to make AI systems more natural and safe to interact with. Your feedback will help us improve.



FFNNs	RNNs
✓ Information flows only forward direction.	Information cycles through loop.
✓ Have <u>1</u> of weights and bias.	Same <u>weights</u> and <u>bias</u> to all the layers.
✓ One layer is <u>independent</u> of the others.	✓ RNN converts the independent activations into dependent activations.
Do not memorize previous outputs.	Memorize previous output by giving each output as input to the next hidden layer.
Do not have a memory.	RNN have a memory.
cannot handle sequential data.	can handle sequential data.
Considers only current input.	Memorize previous inputs.



Lecturelia
A Family Of Learning

