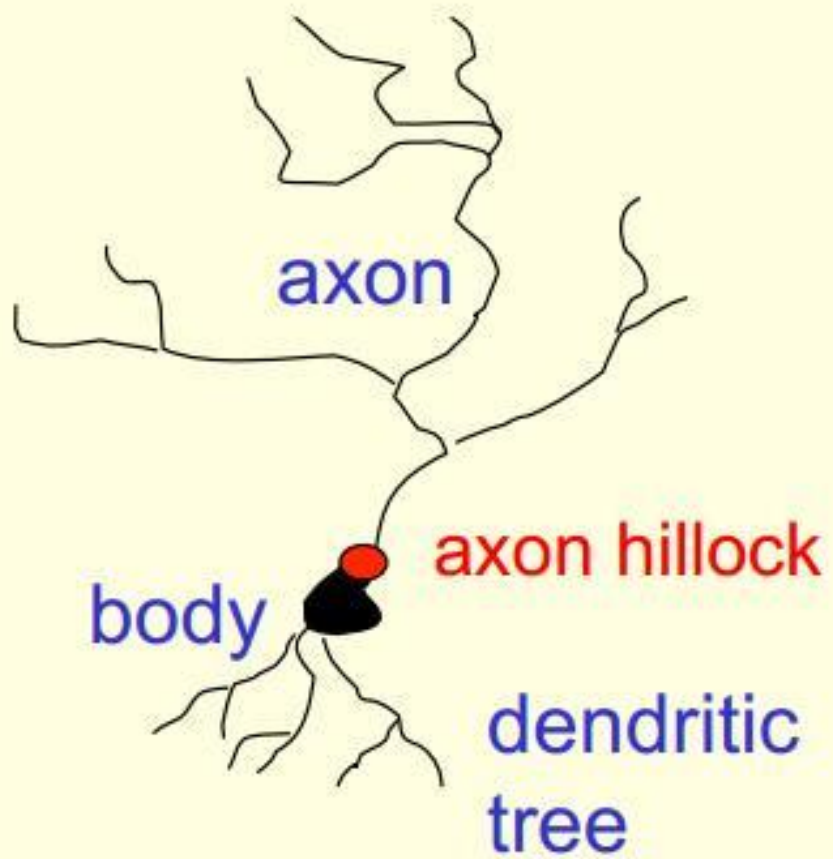
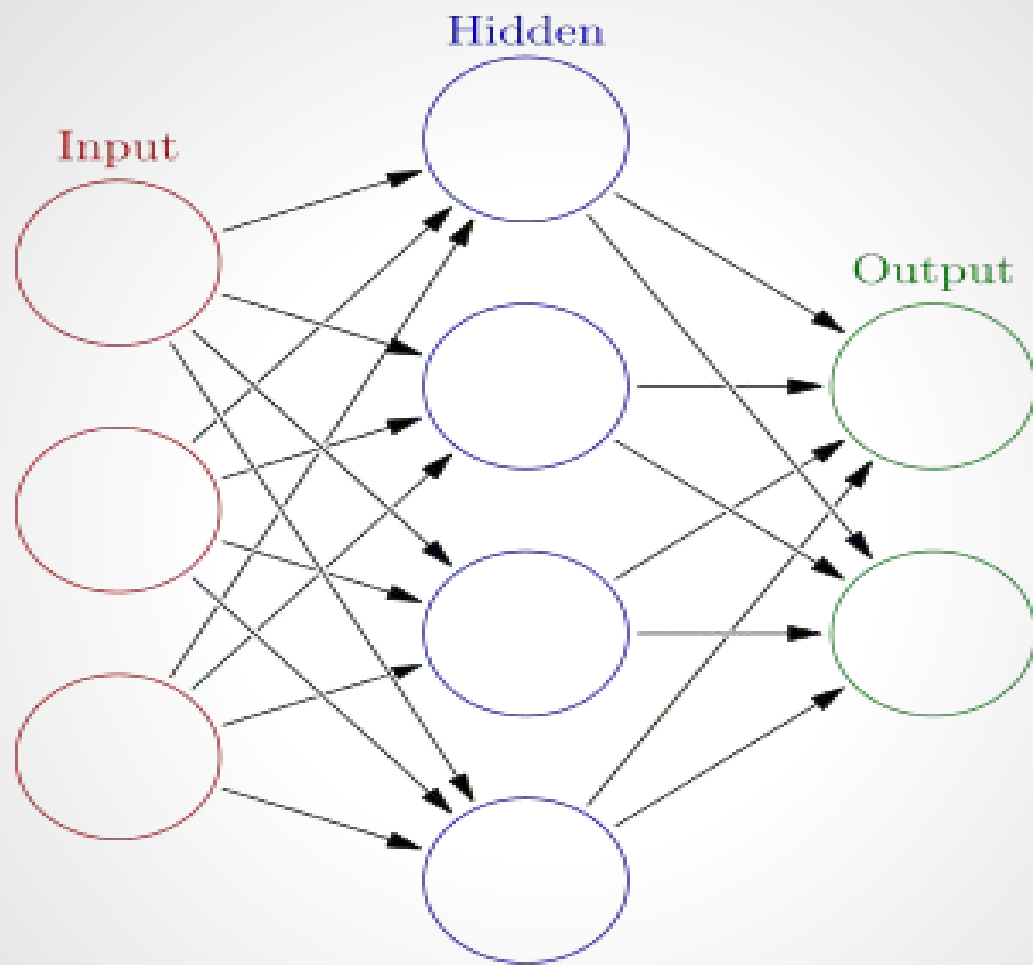


# Neural Networks

# Reasons to study neural computation

- To understand how the brain actually works.
  - Its very big and very complicated and made of stuff that dies when you poke it around. So we need to use computer simulations.
- To understand a style of parallel computation inspired by neurons and their adaptive connections.
  - Very different style from sequential computation.
  - should be good for things that brains are good at (e.g. vision)
  - Should be bad for things that brains are bad at (e.g. 23 x 71)
- To solve practical problems by using novel learning algorithms inspired by the brain.
  - Learning algorithms can be very useful even if they are not how the brain actually works.





# Sources

- 1) Geoffrey Hinton's Lectures on Coursera.com
- 2) Prof. Dr. Suresh Sundaram's lectures for the course Pattern Recognition and Machine Learning, IITG.
- 3) Images from Google.
- 4) Suggest to watch Andrew Ng's lectures for ML on Coursera.com