

Algorithms

- Linear regression
 - $y = mx + b$ for simple linear regression
 - $y = m_1x_1 + m_2x_2 + \dots + b$ for multiple linear regression
 - x is projected onto a new space in partial least squares regression

- Neural networks
 - sets of nodes that transform inputs into an output
 - allows for nonlinear relationships.

- Deep learning
 - neural networks with multiple layers
 - increasingly popular and powerful with faster computers and larger datasets

Not an exhaustive list!



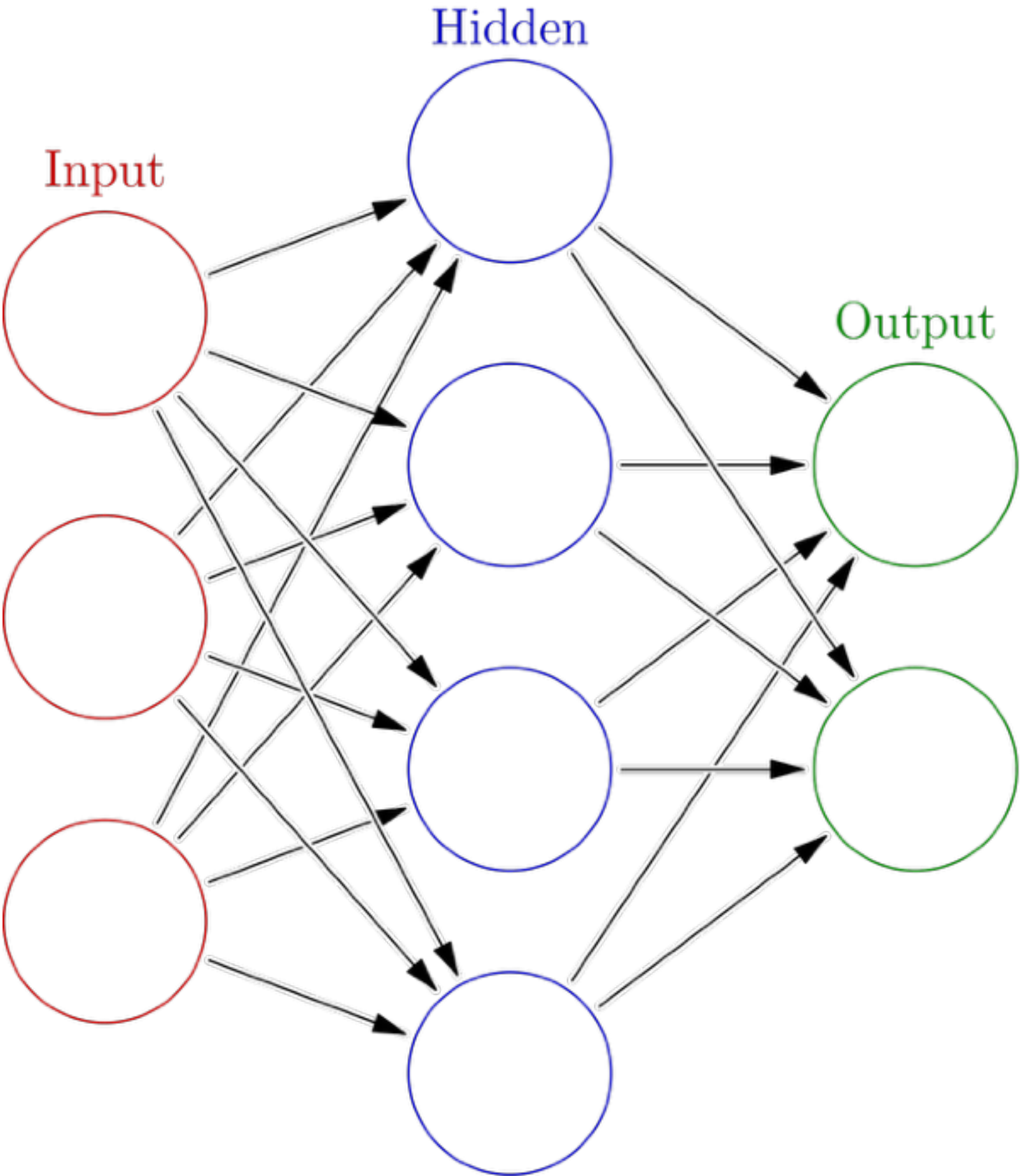


Diagram of an artificial neural network [2]

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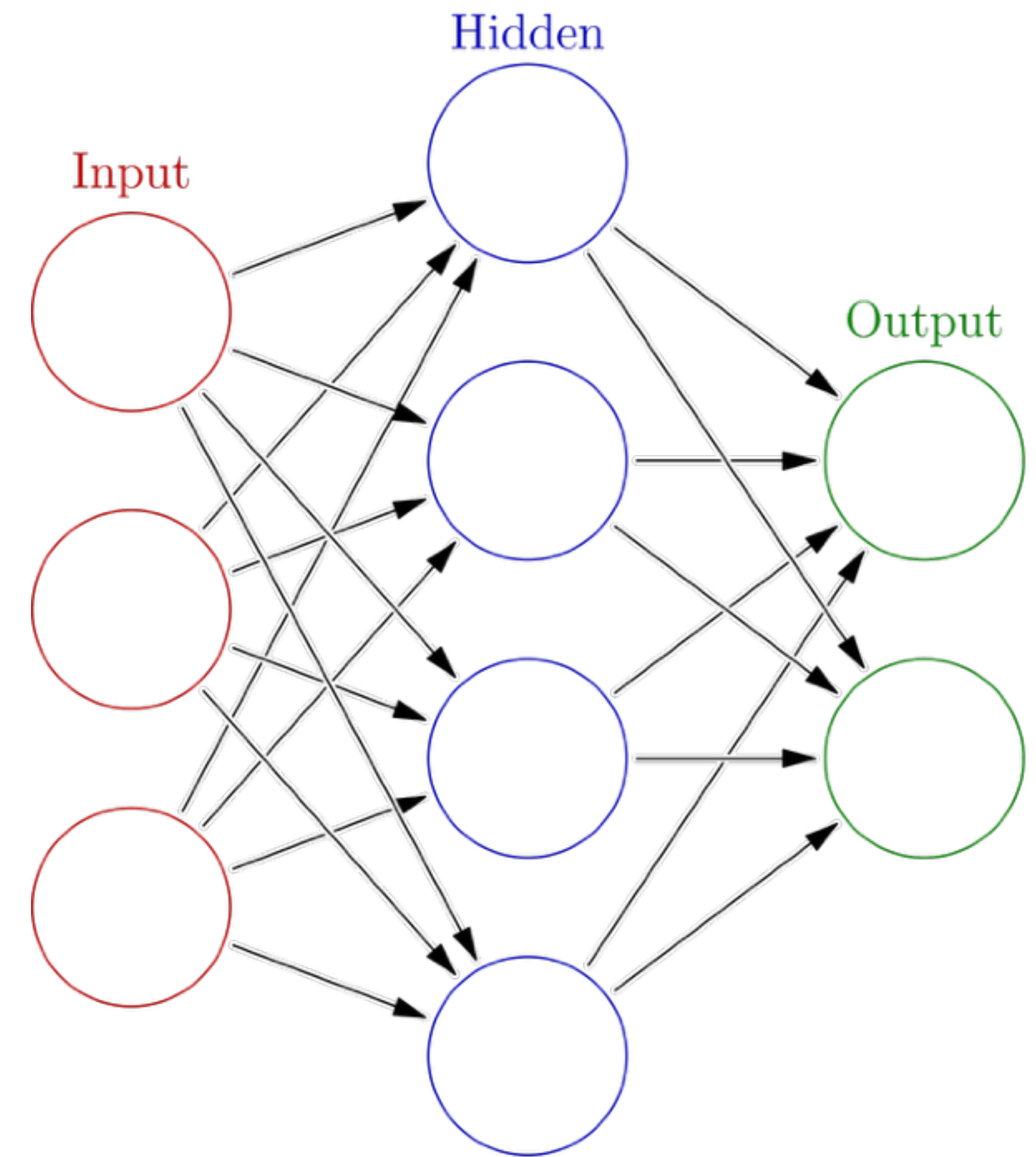


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Validation