

## AI/ML Resources that I Found Helpful

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### Compiled by Clay Morton

Start [here](#) to learn about the basics of AI and Machine learning. This gives a nice foundation and vocabulary for the following resources. [Here](#) is an IBM explanation that tells the differences between all the terms mentioned in the previous article.

Note that I view all of the different 'types' of AI as tiers because AI is really a blanket term, but the world tends to group things into 'AI' in general. This document puts the tiers in order of complexity and intelligence/connections as I see them.

## Tiers of 'AI'

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### Tier 1: Artificial Intelligence

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[IBM's Explanation of AI](#)

### Tier 2: Machine Learning

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[IBM's Explanation of Machine Learning](#)

### Tier 3: Deep Learning

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[IBM's Explanation of Deep Learning](#)

[Deep learning applications and uses](#)

### Tier 4: Computer Vision

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[AWS Explanation](#)

[IBM Explanation](#)

# The Parts

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## Neural Networks

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[MIT's Explanation of Neural Networks \(surface level\)](#)

[IBM's Neural Network Explanation \(in depth\)](#)

[IBM Developer VERY deep dive into learning in neural networks](#)

## Types of Neural Networks

[IBM Convolutional Neural Networks \(CNN's\)](#)

[IBM Recurrent Neural Networks \(RNN's\)](#)

[Turing explanation of Transformer Models](#)

[Transformer network step by step](#)

## NLP VS. LLM

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[Comprehensive overview of NLP V LLM](#)

[Uses & Applications of NLP & LLM](#)

[IBM's Explanation of NLP](#)

## Model Training

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[Oden Technologies on Model training](#)

[Model training on hardware & differences in hardware](#)

# Hardware

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## CPU V. GPU

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[TRG Data Centers](#)

[IBM's Explanation of the computational differences for AI](#)

## Hardware Requirements

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[What Hardware is needed \(overview\)](#)

[Scalability, Parts, Hardware, explanations](#)

[More complex explanation](#)

## Architecture and Processing

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[How GPU-Based AI Processing Works](#)

[NVIDIA GPU explanation](#)

[Basic guide to hardware and architecture for AI](#)

[AI Hardware Explanation](#)

[Intel's explanation of AI hardware](#)

[Processing efficiency from MIT study](#)

## CUDA Cores VS Tensor Cores

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[CUDA Explanation 1](#)

[CUDA Explanation 2](#)

[Tensor Cores Explanation](#)

[Tensor V CUDA](#)

# Videos

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[Transformers \(great visualizations!\)](#)

[More transformers Explanation](#)

[Transformers Again](#)

[Recurrent Neural Networks, Transformers, and Attention](#)

[Convolutional Neural Networks](#)

[Neural Networks](#)

[Neural Network Architecture](#)