

End of Class

What Did We Cover?

- Introduction / background
- First example (1-layer "deep" network)
- Deep networks
- Residuals and Normalizations (deeper networks)
- Convolution
- Transformers
- Making it work

Where Are We on Your Deep Learning Journey?

- Solid Foundation
 - Technology developed 2012 - 2022
 - Solidified 2020 - 2022
- What's next?
 - Core Applications: Computer Vision, Robotics / RL / Agents, NLP, Generative Models, Multi-modal LLMs
 - Very fast moving and competitive
 - Broader applications: Medicine, Bio-tech, Agriculture, Geology, ...
 - Technology still evolving

At the end of this class, you should be able to:

Design, implement, and train your own deep network on any data you wish.

Have fun!!