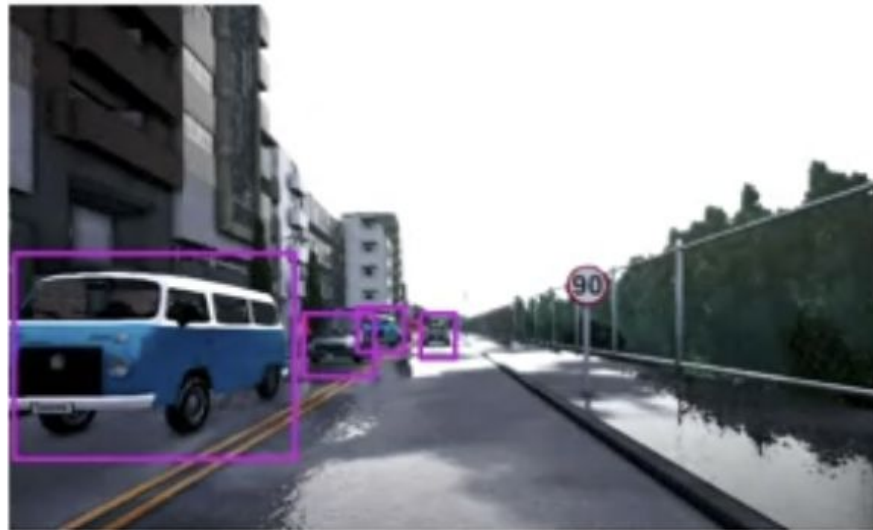


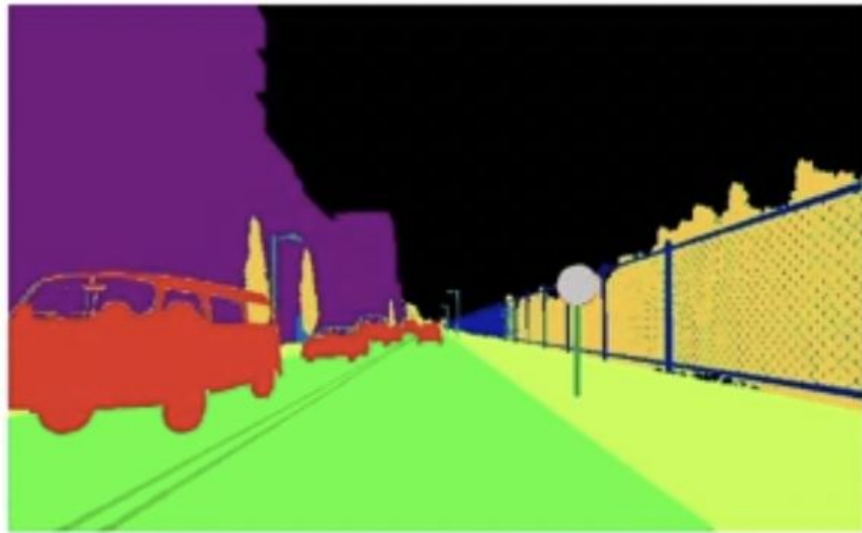
# Advanced Machine Learning

Likhith Nayak

# Semantic Segmentation



# Semantic Segmentation



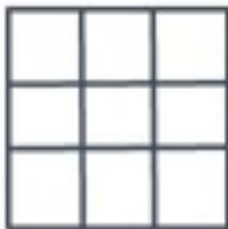
# Semantic Segmentation - Labels



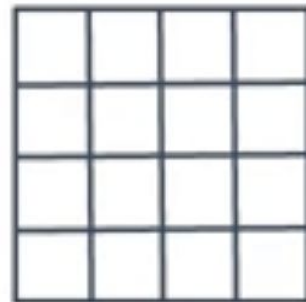
# Transpose Convolution



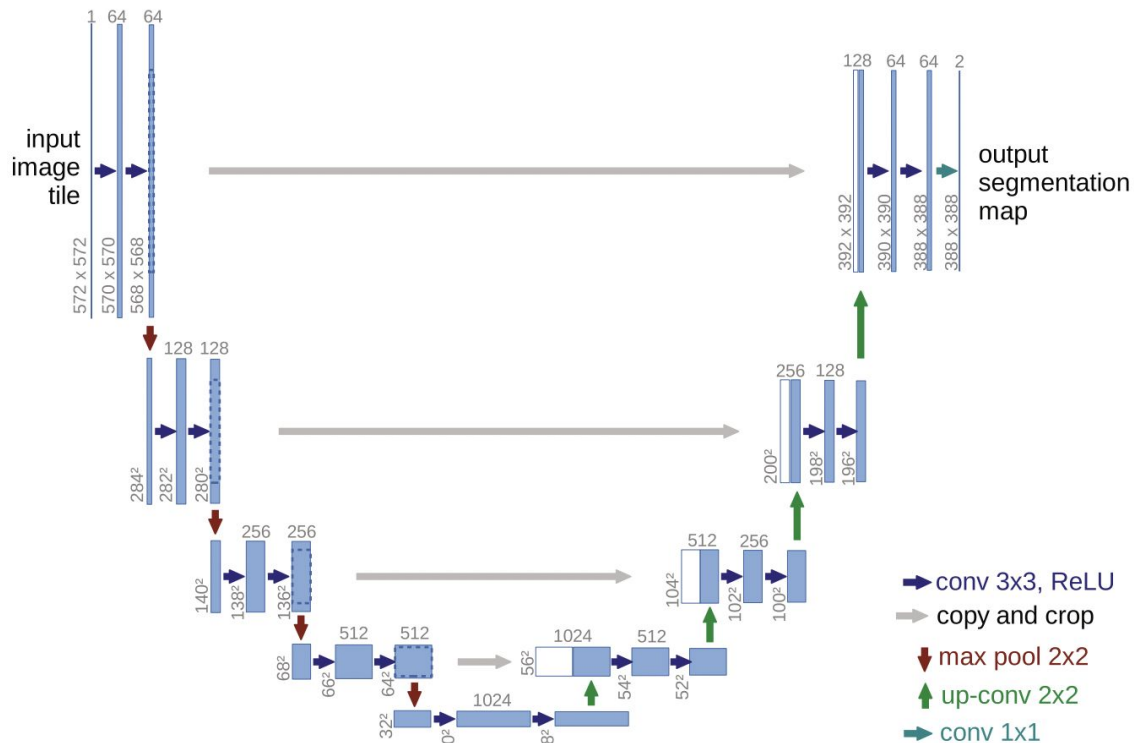
\*



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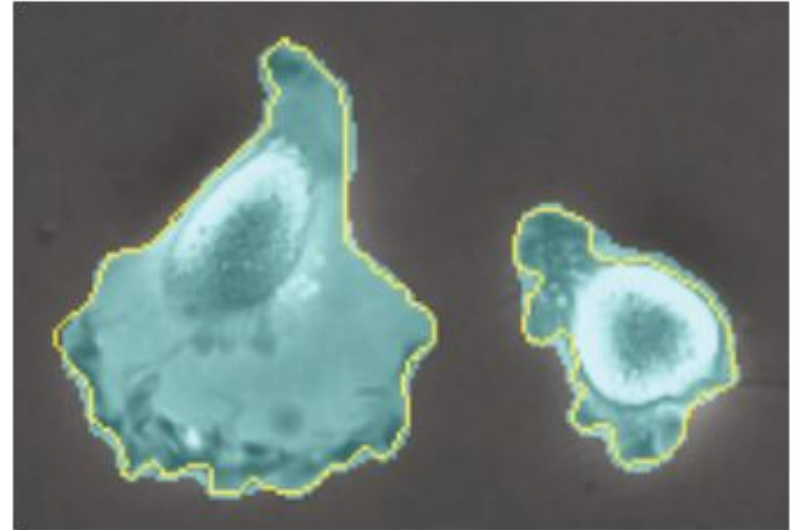
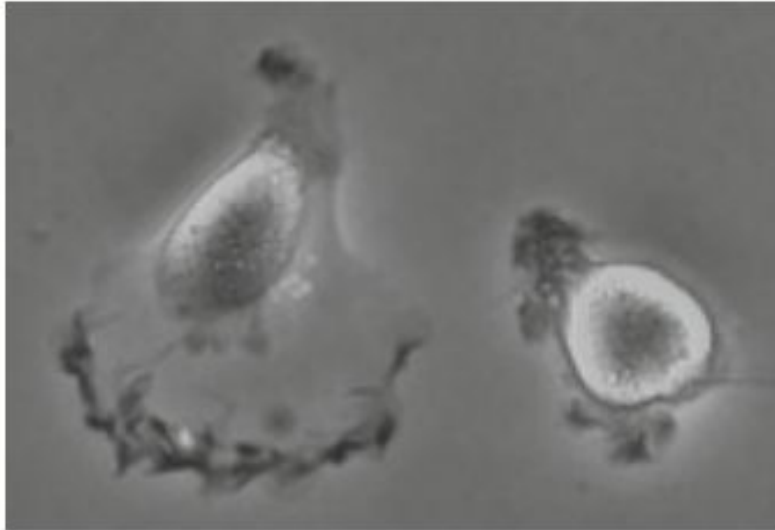


# U-Net



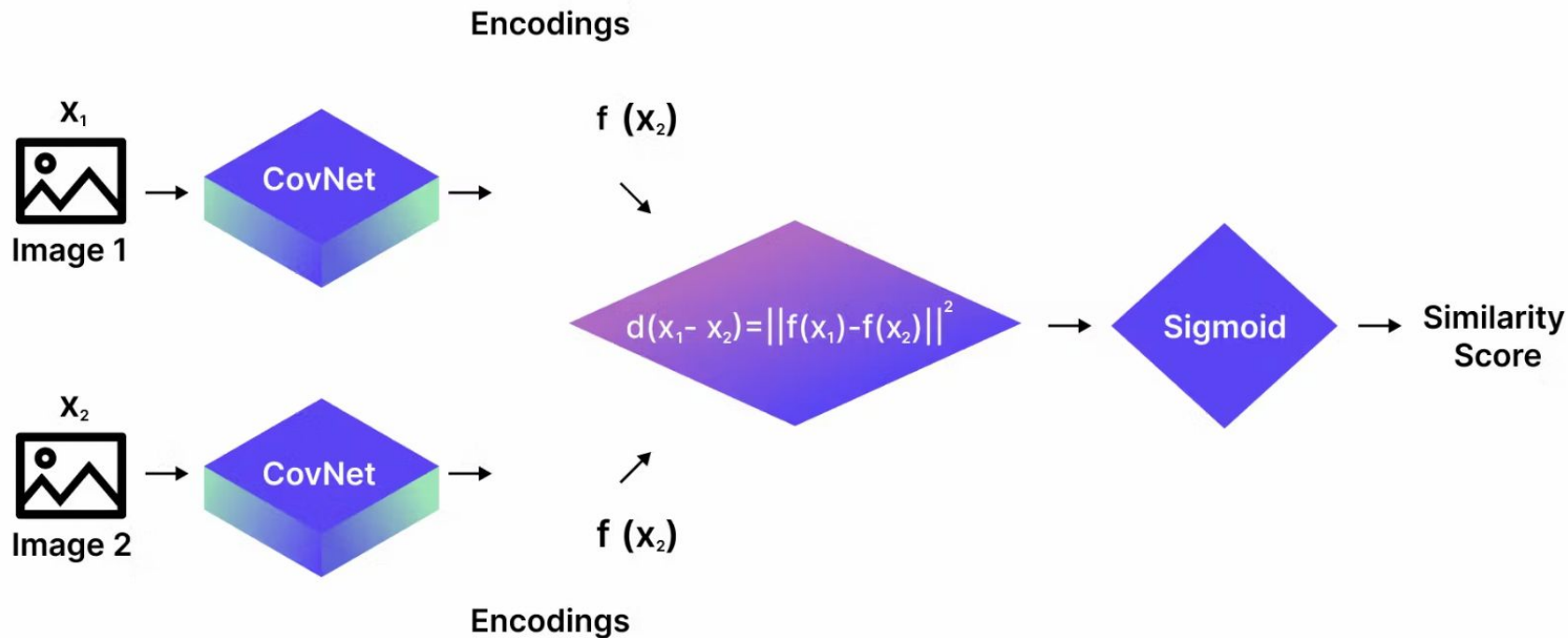
Ronneberger, Olaf, Philipp Fischer, and Thomas Brox. "U-net: Convolutional networks for biomedical image segmentation." *Medical Image Computing and Computer-Assisted Intervention—MICCAI 2015: 18th International Conference, Munich, Germany, October 5-9, 2015, Proceedings, Part III* 18. Springer International Publishing, 2015.

# U-Net



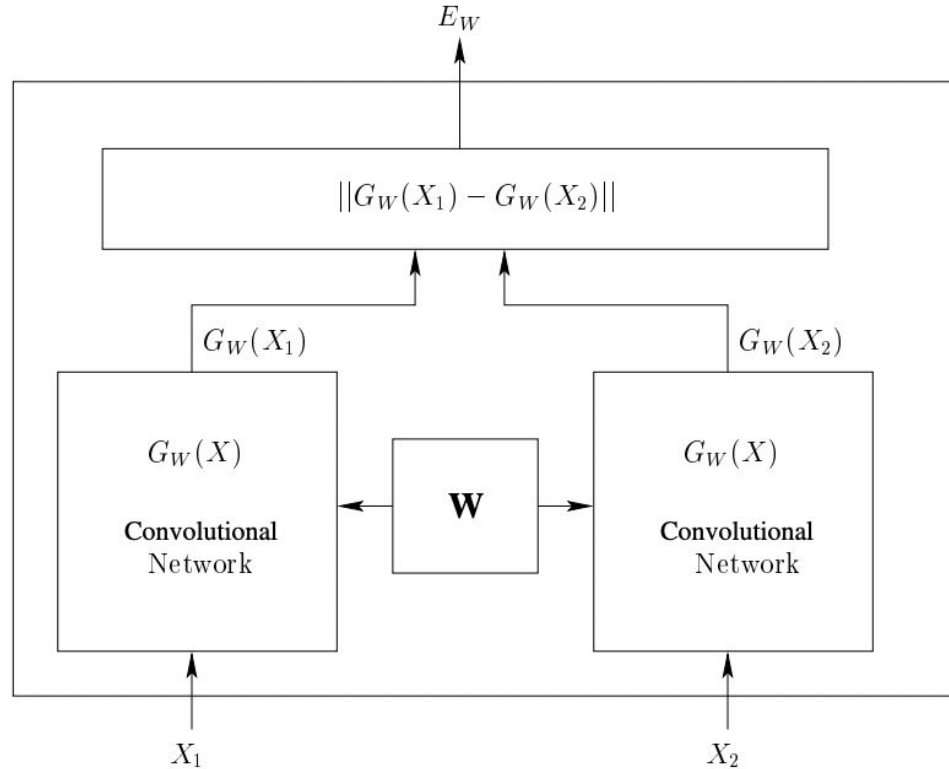
Ronneberger, Olaf, Philipp Fischer, and Thomas Brox. "U-net: Convolutional networks for biomedical image segmentation." *Medical Image Computing and Computer-Assisted Intervention—MICCAI 2015: 18th International Conference, Munich, Germany, October 5-9, 2015, Proceedings, Part III* 18. Springer International Publishing, 2015.

# One-shot learning

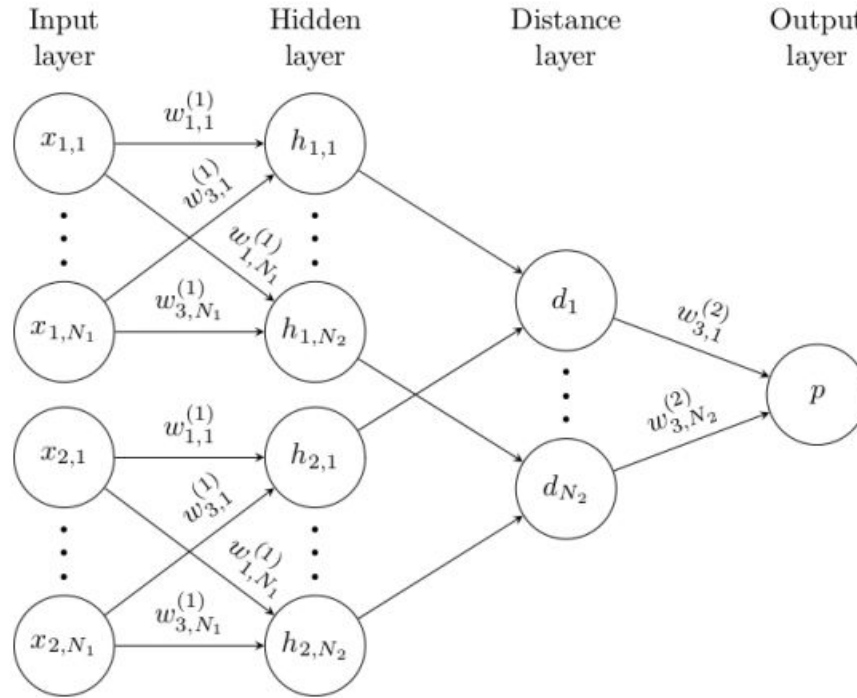




# Siamese Network



# Siamese Network



# Triplet Loss

