Publication and Year	**Technology**	**Summary**
Cheng, Z., Yang, Q., and Sheng, B. (2016)	Deep Colorization	The paper presented a fully-automatic colorization method using deep neural networks
Dahl, R. (2016)	Automatic Colorization	automatically produce multiple colorized versions of a grayscale image
Goodfellow, I. J., Pouget-Abadie, J., Mirza, M., Xu, B., Warde-Farley, D., Ozair, S., Courville, A., and Bengio, Y. (2014)	Generative Adversarial Networks	Proposed a novel approach of implementing Generative Adversarial Networks using two Neural Networks, viz Generator and Discriminator Networks.
He, K., Zhang, X., Ren, S., and Sun, J. (2015)	Deep residual learning for image recognition	Presented 152 layer using residual learning framework for image recognition and an adaptive edge detection based colorization algorithm and its applications.
Isola, P., Zhu, J.-Y., Zhou, T., and Efros, A. A. (2018)	Image-to-image translation with conditional adversarial networks	Pix2Pix is a Conditional-GAN with images as the conditions for colorization.

Ledig, C., Theis, L., Huszar, F., Caballero, J., Cunningham, A., Acosta, A., Aitken, A., Tejani, A., Totz, J., Wang, Z., and Shi, W. (2017)	Super Resolution using GAN	Photorealistic single image super-resolution using a generative adversarial network.
Levin, A., Lischinski, D., and Weiss, Y. (2004)	Colorization using optimization	Used quadratic cost function and were able to generate high quality colorizations.
Long, J., Shelhamer, E., and Darrell, T. (2015)	Fully convolutional networks for semantic segmentation	Showed that convolutional networks by themselves, trained end-to-end, pixels-to-pixels, improve on the previous best result in semantic segmentation.