Who – David Lafferty

What – Machine Learning and facial recognition

Where –

When – 03/08/21-

Why – To get an understanding of machine learning and experience working with them

Describe in detail what you did  
I started by studying about machine learning. I built a few basic machine learning algorithms to learn how they work. I built a facial recognition program that identified faces in images by following a tutorial. I fixed an issue with the tutorial program in which faces were labeled in the wrong order resulting in mislabeling in images with multiple faces. I built a facial recognition program that identified faces in video by following the same tutorial. I had to adjust it in the same way as the previous program; I also had to determine a way to deal with the lag caused by the facial recognition run on each frame.

Describe in detail how you worked

Lessons learned  
I learned how machine learning works, how to program a machine learning algorithm, and how to implement facial recognition. While the facial recognition on video ran slowly and caused lag, the facial recognition on images worked quite well for being free.