

SAIDL ASSIGNMENT APPROACH

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This is a documentation of my approach on the saidl summer assignment 2021. I started off with exploring various ideas for part 1 and got too fixated on the idea of using morse code for encoding-decoding data from text to video and vice-versa. This fixation was a result of the fact that not a lot of people consider morse code to be a proper encoding method, most of them consider it as merely a different representation, which is why it could be used for encoding data in an innovative manner because not a lot of people expect it, which adds to the security.

I was initially considering going for the paper implementation task but after a week or two of scrounging through papers and getting them rejected, I realized that I would need to put in more effort to implement this idea. A few papers were considered a bit 'un-researchy', which I agree with and it is not what the assignment was looking for.

Simultaneously, I also went through the material for each of the domain specific tasks and tried my hands on all three of them before finally resorting to submitting only a part of the computer vision task.

I would like to get a brief review of my idea of using morse code in an innovative manner. I used an LED flashing as the sample output for the sake of simplicity but we can create more complex representations of these patterns to make them more imperceptible in nature.