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Period 5

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I successfully trained the CNN on 54 images of lattice points for 200 epochs. At the end, the neural network had an accuracy of 98.21% on the images it trained on. When each image was sent to the network, it was randomly rotated and flipped in order to augment the training data a bit to reduce overfitting. The dropout layer in the CNN also helps to reduce overfitting. I’m currently working on making a visual for the model to show how successful it is and also to test it on images it has never seen before.

One issue while training the CNN is that data is hard to collect manually. I’m planning on writing a script that will take a chessboard and randomly warp the perspective and return lattice point data. This will make it easy and efficient to collect data so I don’t have to waste time on doing that part.

Aside from that, I will continue reading the paper that I am basing my code off of and figure out what the next steps are after lattice point detection. My uncle who is a software engineer at Google is also in the area for the weekend so I will talk to him about possible approaches to this project as well.