Khoa Thanh Anh Nguyen

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Project Number: 4

Individual Contributions

On our group's project, I work with my team on writing our project proposal and do research on Tensorflow to understand its api. I do not have prior knowledge in how to use Tensorflow, so I work with my group to catch me up to speed with creating our Convolutional Neural Network using Tensorflow library. After our group decided on data from stanford will be used for our project, I wrote data_struct.py to unpack and process the collected data. I helped my group with debugging data_harvest.py script to ensure it would work with my data_struct. Additionally, I'm also responsible with implementing the second model of CNN that is a multi-digit trainer. I coded and trained our second model on svhn data that contain images of multiple digits. Using similar variables from my group's first model and its saved weight, I made some adjustments to improve the test accuracy of the second model. I helped my team debug project.ipynb by run a few tests after finished training the multi-digit model. Finally, I help my project group with writing our final report. In the final report, I wrote Experiment and Evaluation section and Discussion and Conclusion section. For other sections that my teammates worked on, I updated a few details after our group made some adjustments in our models and final result.