**SimAss3 - Creating own CNN via Transfer Learning and AlexNet**

1. **Submit a screenshot of the directory, folders, and subfolders you set up**

Graphical user interface, application

Description automatically generated

1. **Submit all the modified programs you wrote.**

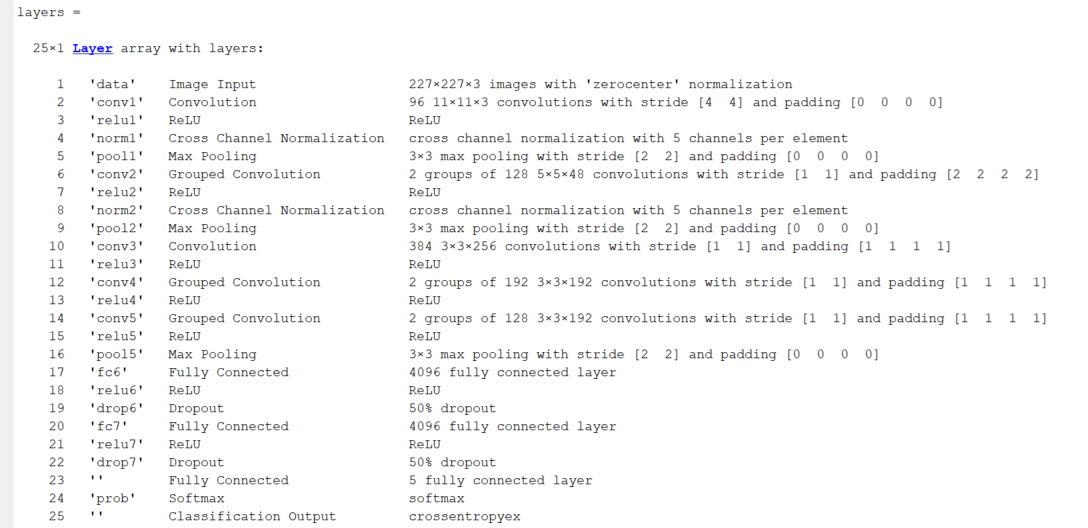
Table

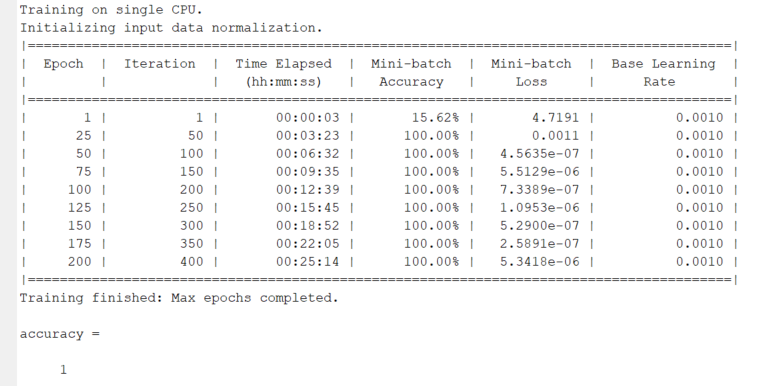
Description automatically generated

1. **Submit the training performance printout of your CNN.**

Graphical user interface, text, Word

Description automatically generated





1. **Submit at least three screenshots of your CNN in action. Each shot recognizing different objects you trained.**

Graphical user interface, application

Description automatically generatedA squirrel eating a flower

Description automatically generated with medium confidence

A picture containing text, monitor, screen, screenshot

Description automatically generatedA picture containing text, monitor, screenshot, electronics

Description automatically generated

Graphical user interface

Description automatically generatedA pizza with pepperoni and cheese

Description automatically generated with low confidence

Graphical user interface, application

Description automatically generatedGraphical user interface, application, PowerPoint

Description automatically generated

Graphical user interface

Description automatically generatedA plant in a pot

Description automatically generated with medium confidence

1. **Comment on the usefulness of CNN for control applications.**

* Transfer learning can be used in AV/ADAS applications to classify road conditions like snow,gravel,smooth road,mud etc to automatically change driving modes like Sport Mode/Snow Mode/Eco mode/Off road mode etc.
* It can be used to recognize road signs and speed limit signs to alert/warn the driver if the driver is not following the limits.

Transfer learning for CNN is extremely useful and is widely being applied in ADAS applications.