CSCI 724 Group Project Notes

Author: Joshua DeNio

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Agenda topics:

1. build a dataset for snow.
2. Build a dataset for flooding.
3. Make a program to resize the images.
4. Design a control structure for the overall project.
5. Create class objects for locations.
6. IE location, wind direction, humidity, days since last rainfall, elevation, Snow cover,
7. Locations must be stored in such a way as to be able to identify their adjacent locations.
8. Create a function to predict the chance of fire spreading to adjacent regions.
9. Create a function to predict the chance of flooding in adjacent regions.

GitHub Guide:

1. Open a terminal and cd to folder that you would like to store your project.

Helpful links:

<https://towardsdatascience.com/intuitively-understanding-convolutions-for-deep-learning-1f6f42faee1>

<https://www.pyimagesearch.com/2019/11/18/fire-and-smoke-detection-with-keras-and-deep-learning/>

<https://towardsdatascience.com/a-basic-introduction-to-separable-convolutions-b99ec3102728>

<https://www.tensorflow.org/tutorials/quickstart/advanced>

<https://www.pyimagesearch.com/2019/10/28/3-ways-to-create-a-keras-model-with-tensorflow-2-0-sequential-functional-and-model-subclassing/>

<https://hackernoon.com/deep-learning-vs-machine-learning-a-simple-explanation-47405b3eef08>