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Neural Compression Network

Goal:

* Create a neural network that modifies a handmade compression algorithm I create to attempt to make it more efficient. It will be able to take in any given file, and it will have a base level of compression that will \*hopefully\* be made even more efficient by the neural network.

Plan:

1. Research heavily into neural networks
   1. Learn basics about linear algebra
   2. Learn basics about multivariable calculus
      1. Mainly gradient descent
2. Research into different approaches to compression algorithms
3. Create a design document
   1. Decide on a system architecture
   2. Decide on any design patterns I want to implement
   3. Describe and model out the system
4. Create a basic neural network at first
   1. Just a basic set of small runners trying to navigate a maze.
5. Create a manual compression algorithm
   1. Will manually count bits
6. Recreate the neural network with a set of basic steps in changing the compression algorithm.

Technology:

* C#
* GitHub
* Trello