

## **Project Idea: Website Brochure describing Artificial Neural Networks**

### **What does it consist of?**

A website that describes an Artificial Neural Network's basic components such as the Perceptron, multilayer neural network, and one with backpropagation (this one is a stretch. It requires a TON of difficult calculations).

### **What is the name of your website?**

I want to name my website "Angel's Artificial Neural Network Blog". This is because, over the past summer of 2018, I had an idea of making an app that would calculate and showcase the work done by an artificial neural network (from my Artificial Intelligence class).

### **What is your website about?**

Its main purpose is to explain and show how an artificial neural network simulates machine learning (mimicking that of the human brain). A mammal brain (not just mammals) have a brain that functions and learns via neurons, a bunch of inter-connected cells that constitute a POWERHOUSE of processing power when working together. An ANN (Artificial Neural Network) simulates a "learning" process by propagating numerical data through fake neurons that calculate the weight of numerical data, and compares the output to desired results to calculate how "right" or "wrong" our machine algorithm is.

### **What is the purpose of the website?**

As mentioned previously, I had this idea of making an android (or iOS) application over the summer of 2018 that demonstrated the entire process that is a Artificial Neural Network. The purpose of this website is to literally show and explain the process of how an ANN does its work.

### **Who is your target audience?**

The target audience for this webpage is any single person who wants to learn more about machine learning in Artificial Intelligence. I seek to make the learning process easier to understand.

### **What information will you have on your homepage?**

My homepage will show a couple of buttons that help the user navigate to which part of the process they want to spend time on. For example, if a user already knows about a Perception, they can move along to learning about the ANN (Artificial Neural Network) saving them time. Not only this, but the homepage will also show my picture and a little bit about me. A user can click on the "About Me" button to go learn all about the author (me!).

**What features will you have within your website?**

My website will feature the obvious HTML, with CSS to help make the webpage for visually friendly. Also, a CSS file will help with text options (font, size, alignment etc.) as well as the look and feel of the website. I will also be using quite a bit of Javascript as this will help with calculations for my perceptron and ANN (Artificial Neural Network). As we move along in the class, I hope to learn some Bootstrap and JSON and maybe I can further improve the website this way.

**What do you want visitors to do once they're at your site?**

Learn about Machine Learning in Artificial Intelligence. Learn about the author and my journey through Artificial Intelligence, and learn about an ANN.

**What types of *actions* do you want your visitors to take within your website?**

Click buttons that help navigate the different webpages, as well as text-input fields that allow for user input and then they can click a button that will call functions that calculate mathematical expressions.

**How many pages of content will need to be developed and what is the purpose of those pages?**

At the moment, I believe that I will need a minimum of 4 pages of actual content. This of course will change depending on time constraints that hopefully will allow for me to add more content such as Programming Algorithms and Sorting Algorithms (far-stretch due to work load).

**What is the layout theme of your website?**

This I have yet to figure out. Front-end visuals are my weakpoint, so I will at very least make the website look and feel smooth as well as user-friendly.

**What colors will you be using for your overall theme?**

This is yet to be determined, but I usually go for a soft blue and grey (as well as bronze).

**What style of page navigation will your website have?**

I really enjoyed the (navigation tool-bar) at the top or middle-top of the page. This allows the users to have their options to navigate the website right in front of them.

**Are there websites that already exist which are closely related to yours? What are they?**

This I actually don't know. I am sure if you were to google "Artificial Neural Network", a plethora of websites showing artificial networks would come up. I just think mine is going to be unique because I want it to be friendly for students.

**What types of things do you see on other websites that you would like to incorporate within your website? Will you?**

I like when websites show pictures or even gifs or drawings of the neural network in working motion. I am not good at gifs, but I would like to incorporate visual animations of a neural network in place.

**What makes your website *similar* to others?**

My website is similar to the other mentioned websites because it also just breaks down and describes an ANN.

**What makes your website *different* from others?**

I want my website to be more simple and easy to understand. I want students to be able to go to my page and easily learn the Artificial Neural Networks.

**What more can you state about your website?**

It is going to be somewhat of a unique project! It will be total rad, as well as being far-out, man!