[Ai Seminar]

This poster was created by God Bennett in Gimp.

Bank Artificial Intelligence Seminar

A small seminar featuring a live Ai session, where a basic Artificial Neural Network was written from scratch & discussed, led by God Bennett

2020 to 2024

Code/video for a live recorded session of a basic neural network done by God Bennett https://www.youtube.com/watch?v=OhRkCb8XGj0

Brain inspired computer code or smart apps, called **AGI or Artificial General Intelligence** (predicted to happen by as soon as 2029 or sooner), will perhaps one day be mankind's last invention! (Interested parties can see *MIT's AGI course here.)*

For now though, AGI's predecessor, called **Artificial Narrow Intelligence**, also called **Artificial Intelligence**, can do amazing stuff like diagnose diseases better than human doctors, enable self driving cars, or give game characters the ability to learn to navigate game environments without human aid!

Crucially, *where Ai is already enhancing banking*, fortunately the **Jamaican government** has recognized the impact that artificial intelligence already brings, and what shall likely happen futureward. I speak more about this in the gleaner articles found on the newspaper tab on this experimental platform of mine.

Quick Overview of Seminar:

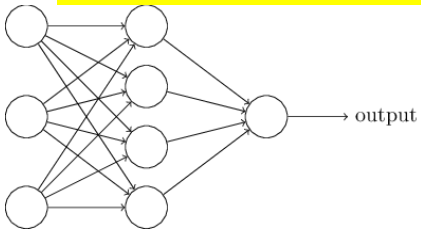
1.) All of successful artificial intelligence algorithms today perform something called error minimization.

2.) They work ***similar*** to how biological brains work.

3.) For eg, with a ***high error rate***, a child will first ***wrongly*** identify objects in the world in his/her earlier years of life.

3.b.) That error rate gets ***smaller*** or is minimized, as the child gets better at identifying objects in the world; in the early years, a parent can guide the child by saying this is a cat or this is a dog etc, i.e. the parent helps the child to ***correctly label*** objects in world.

3.c.) After a while, even without parental guidance, the child will be quite good at identifying objects, and his/her error rate at object identification would have been ***minimized substantially.***



4.) Artificial Intelligence works in a similar way; for a particular task, they start out ***terrible*** with high error rates, then they get far better after being exposed to many instances of correctly labelled things, until they get to a point of doing the task well, even without being exposed to correctly labelled data.

5.) Artificial neural networks power most smart apps today.

I spent about 2 hours to write a basic artificial neural network in java from scratch without using machine libraries/internet. (The aim was to try to guide SASS team along in writing a basic artificial neural network, as I wrote the code)

This exercise was really geared towards preparing more Bank programmers to better apply machine learning libraries.

6.) Though optional, understanding basic neural nets (even a non-math heavy, but programmatic understanding instead) can afford the programmer better grasp of applying machine learning libraries such as ***tensorflow*** built by Google or ***azure ml*** by Microsoft or other ones by other parties like **the one I used to help code the artificial neural network based credit card fraud detection system demo here at National Commercial Bank**. (We ***didn't*** go through the math behind basic neural nets, but we went through a relatively simple live programming example instead.)

Regards,

God Bennett (author of the weekly Jamaican-newspaper Gleaner column: "Artificial Intelligence and the economy", and "Why Jamaica needs a minister of Ai"..., inventor of the "Supersymmetric Artificial Neural Network" and author of "Artificial Neural Networks for kids".