Drake Duerdoth

Ideas

1. 2021/05/04 Nutritional AI

AI prepares and cooks your meals based on nutritional needs. This is definitely a far-fetched “blue sky” kind of idea, and I’m not sure how it can be done. This would probably involve some sort of test to see nutritional levels. There would also be a level of hunger to detect, so the AI would also have to detect the amount of ghrelin being released in the body.

1. 2021/05/06 Temperature Adjusting

AI model that automatically adjusts the temperature of the room based on a person’s heartbeat and body temperature. This could actually be done, but I don’t think an AI would actually be necessary. The homeowner could always have a thermometer on them, and if their body temperature gets a certain level, the thermostat could adjust accordingly. For instance, in the summertime after being outside for a few hours, the body will obviously be hotter than normal. The thermometer would then send a signal to the thermostat to turn down the temperature in the house. However, I don’t think this would be a good theory to explore since the utilization of AI would be minimal. On to the next one!

1. 2021/05/06 Efficient Space

AI model that can sort/organize objects to make the space as efficient as possible. I’m not sure about this one either, but it’d be pretty awesome! If you were in a rather small bedroom and you wanted a king-sized bed, two nightstands, a dresser, a tv, and a desk to fit in the room, then an AI can scan the room and make it happen. I don’t know about this one in terms of it being a good idea. The AI would have to be able to scan the bedroom and all the objects the user wanted in it for dimensions. Creating more “space” can also be subjective. While someone might want more room between the bed and desk, one might want more space in the dresser and nightstand area. Whatever!

1. 2021/05/06 Muscle Imbalances

AI to detect muscle imbalances. As a frequent lifter, I find myself being a lot stronger in some exercises than others. Having an AI detect muscle imbalances can optimize one’s overall muscularity and health.

1. 2021/05/06

Some people aren’t that fashionable or like a style that doesn’t suit them. Maybe an AI can help a user dress based on their looks. The AI can help the user appear more attractive and wear items that are more flattering to them.

1. 2021/05/07 Sleep Patterns

AI to help with sleep. What if 8 hours isn’t the magical number? Maybe everyone’s sleep schedule is different for a reason and AI can help better sleeping patterns. I tend to be a night-owl unintentionally. Or perhaps AI can find the most optimal time to go to bed for each individual.

1. 2021/05/09 Parallel Compression

AI model that can turn down/compress loud noises based on parallel compression. So this one I actually have been wanting to do for a really long time. I think this is much more of an invention than anything and am not sure if using AI is necessary. This would be unbelievably helpful for those in combat, construction workers, firemen, etc. Basically anyone in a louder environment could use these. It’s essentially earplugs, but the difference is that it doesn’t keep levels down at a certain decibel; it would change within the environment. For instance, if you’re in the library, the earplugs are “off”, but say the fire alarm starts blaring, and the decibel level goes up to 100. Instead of your eardrums dealing with that noise, and potentially harming them, the plugs would compress the noise to a non-threatening level. I think this would be an incredible thing, but not for the class 😊

1. 2021/05/10 Traffic Traffic

AI that optimizes stoplights. This one actually has potential. We’ve all dealt with being stuck at a red light, yet there are zero cars going across the intersection. The AI could “replace” the stoplights and adjust to the amount of traffic in that intersection. I think the asiest way to do this would be through a rule-based system. This system could be efficient and easy to build. A good rule could be something like “if there hasn’t been a car that has crossed the intersection in over 15 seconds, then switch to yellow, then red. The only downside to this is that there are no additional models needed for this topic. For instance, no personality is needed. I feel like I’m getting close to the right idea.

1. 2021/05/10 Temperature Cont.

Going back to AI adjusting temperature of rooms, this could actually work! I think a rule-based system would also be optimal, and it wouldn’t that strenuous. However, how much content would there be for AI adjusting temperatures? Or AI devices for medical purposes? That one might have a good amount of information, but I don’t think it’d be relevant to what the idea is.

1. 2021/05/10 Stop the Scammers

Detecting telephone scams. This would be fantastic to have. Having an AI detect potential “warranty extensions” or any bogus call from the “IRS”. An AI model that can detect it before even going through would be incredible.

1. 2021/05/10 Basketball Prospects

AI to detect the best prospects in basketball. As a Chicago Bulls fan, I’m tired of us losing. We’ve had great success in the 90s, but not much since. It’d be great to have an AI choose the best draft pick’s potential. This would be a personality test, physical test, etc. and it could tell you how great of a prospect they are for the organization.

1. 2021/05/11 Investing AI

I’ve been dabbling in investing for a while and would like to find something AI-related for it. It’d be awesome to have it just tell you what to buy and make the money possible 😊 of course, that’s unrealistic. I think I’ll have something for that soon.

1. 2021/05/11 Housing Market AI

AI to help with negotiating housing prices. As an apartment-dweller, I’d really like to get out and buy a house. I just don’t know the market that well. Having an AI to negotiate prices with realtors would be incredible.

1. 2021/05/12 Investing AI Cont. 1

So I’ve been letting the investing AI marinate for a bit, and I think I’m on to something! This would involve personalities too. What if I had an AI model that’s like the Animal assignment to pick which stock, crypto, etc. that’s best to buy? The personalities would be like Elon Musk, Jeff Bezos, Warren Buffet, etc. The user would type in the stock and the current price of it and see what the personality would think of it. Since there’s decades worth of data in stocks, there is enough information to use for this topic.

1. 2021/05/13 Fear or Greed Investing

I’m trying to think of a way to associate some sort of emotion for this investing idea. I’m thinking either between greed or fear. I think greed would be a good one because when people are up money in their investments, they like to hold on for as long as possible to get more. Having an AI component telling you when to get out of a trade would be a pretty cool idea. Fear would be good too though. This would allow an investor to not feel so nervous about their potential investment, even though they were correct.

1. 2021/05/14 Additional Personalities in Investing

I’ve decided to use the investing idea, but it’ll be based on fear. I’ll have personalities such as Elon Musk and Warren Buffet tell the user whether it’s a good time to buy into the investment. I might use a neural network and the Animal assignment, using Lisp to have the AI collect more information for the correct investment. The neural network can be “trained” the same way the logic gates were, but I’m not sure how to use the actual personality aspect. I’ll think of something.

1. 2021/05/15 Helping with Addiction

AI to help addictive personalities. Whether it be drugs, bad habits, gambling, etc. maybe AI can help curb those addictions through different outlets. Not quite sure how this would work.

1. 2021/05/20 Rule-Based Investing

I’ve been sitting on this investing one for a bit. I thought the best thing for me to do was to let it marinate and see what I come with. I’ve started creating the Lisp aspect of the assignment but am not quite sure how to associate the neural network. Also, switching between personalities might be a bit of a pain, and training the neural network is a bit type-heavy for a user. Maybe a rule-based system is best.