



Cover

Computers, you see, are a lot like brains, just less neurotic and much better at math. But the similarities are uncanny , especially when you start talking about computer programming. Take the concept of creating Objects in software programming code for example. It's not too far removed from the way the brain chunks information into neat little packages of "thingness" so we don't spend all day trying to remember what chairs are for.

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Take “Inference,” for example. Now, inference is the brain’s version of the world’s worst office infern. You’re trying to interrue your really are, but the internet keeps interrupting with questions like, “Have you heard this catchy song?” or, “Did you ever wonder if penguins have knees?” For someone with ADHD, filtering out distractions is like trying to remove a specific grain of rice from a bowl.

Ah, but if you think split-brain patients and countenirized consciousness are puzzling, just wait until You bring ADHD into the equation. You see, ADHD aka Adult Attentional Deficit Hyperactivity Disorder is a lot like a large language model, if said model was powered by squirrels on caffeine. The parallels are, once again, disturbingly clear.

ow, brains have two halves, the left and right hemispheres, which, despite sharing a lot, don't always seem to share a clue. They're a bit like a CPU and a coprocessor: one does most of the heavy lifting while the other tries to keep up and insists it knows what's going on. Except, sometimes, it isn't.

In one rather famous experiment, a split-brain patient (whose brain hemispheres had been surgically separated, for reasons that we'll skip over in favor of avoiding

uncomfortable cringes) was shown different instructions in each eye. The right hemisphere was told to stand up, and like any obedient half-brain, it did. But here's the kicker: when the left hemisphere, which handles all the talking, was asked why the patient had just stood up, it had absolutely no idea. Instead of admitting to this gap in knowledge, it did what any self-respecting hemisphere would do: it made up a story. "Oh, I just felt like stretching my legs," it might say. Total nonsense, of course, but

from a bowl while an earthquake is happening. And for large language models? Well, it's a bit like feeding it a perfectly coherent sentence and watching as it veers off into the fascinating history of carpet fibers.

Next, we have the notorious "Token Limit." In humans, this might be called the point at which your working memory politely taps out, leaving you in the middle of a sentence wondering what on earth you were just talking about. For an AI, it's the moment

where it realizes that it's been asked to summarize War and Peace, but it only has room for 500 words, so Tolstoy is going to get very, very abridged.

Then there's "Context Switching." If the brain were a web browser, ADHD would be that person with 47 tabs open, three playing videos, and no idea where the music is coming from. Rapidly switching between tasks or thoughts is a core feature of the ADHD experience, and much like an AI model being interrupted mid-thought to handle new

inputs, it leaves you in a perpetual state of "Now, what was I doing again?"—an existential crisis in short bursts.

"Attention Allocation" is where things get really interesting. The ADHD brain is like a magpie with a Pinterest account—constantly distracted by shiny, novel, or utterly irrelevant stimuli. Meanwhile, important things like, say, finishing your taxes, drift off into the background noise. AI models aren't much different. They can latch onto obscure or irrelevant parts of a dataset with the kind of

enthusiasm most people reserve for cat videos.

Of course, there's "Hyperparameter Tuning," which sounds terribly technical but is really just the brain's fancy way of saying, "Everyone needs a personalized strategy to function optimally." For an AI, this means fine-tuning settings like learning rates, which, let's be honest, is just a glorified way of figuring out how much coffee it needs to get through the day. For ADHD folks, it's discovering that the only way to finish a task

Now, in terms of what we might call "heathy" cognitive processing, well, that's a bit like asking, What's the best way to arrange a sock drawer? It depends on the socks, doesn't it? Some brains are wonderfully balanced, with just a dash of interference, a sprinkle of noise, and a hearty

Like a well-trained circus animal, But leave
that rewarded too far off, and suddenly, neither
the At first hard work.
all this hard work.
And there, of course, there's "Noise". The
ADHD experience is akin to living inside a
pinball machine, where every flashing light
and ding of a bumper sends your thoughts
racing through in different directions. This
internal and external cacophony is remarkably
similar to the "noise" that muddles up an AI
systems' processing, making it difficult to

is to set three times, listen to whale noises, and occasionally dance in place.

Now we arrive at the ever-repeating "Reinforcement Learning and Reward Sensitivity". Here's the thing: ADHD brains have bit of a sweet tooth for instant gratification. Long-term goals? Those are far off! You to worry about. Right now, that dopamine hit from bullying another housesplain is calling your name. All models respond to reinforcement in much the same way—show them the right reward, and they'll perform

unrelated questions at once. And, frankly, that's probably as good as it's going to get. But if one of these AI systems ever does stand up, would it even know why? Well, much like someone with ADHD who finds themselves inexplicably standing in the kitchen at 3 a.m. with no recollection of why they're there, the answer is: probably not. And when you ask it what it's doing, expect nothing less than a confidently delivered, utterly nonsensical response—because in the end, both the ADHD brain and the AI model	are masters of convincing themselves that they know exactly what's going on, even when they have absolutely no clue. See also: Interference: There is a struggle to filter out distractions. Token Limit: Limited capacity for sustained focus and working memory. Context Switching: Rapid switching between tasks or thoughts mirrors an AI model being interrupted to handle new inputs before completing the current task.	Attention Allocation: Difficulty prioritizing relevant stimuli, often being drawn to novel or stimulating elements, is similar to how a model might focus on less relevant inputs. Hyperparameter Tuning: Optimal functioning requires personalized strategies, analogous to tuning a model's hyperparameters. Reinforcement Learning and Reward Sensitivity: A tendency to prioritize immediate rewards is comparable to how reinforcement learning models respond to immediate feedback.	Noise: The presence of internal or external distractions can be seen as noise that disrupts clear and focused processing, similar to noise in an AI system. In terms of what might be considered a "healthy" or typical cognitive processing distribution, it's important to note that there is no universal standard, as cognitive processing varies significantly among individuals and situations. However, a
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Healthy Distribution: More emphasis is on Attention Allocation and Reinforcement Learning & Reward Sensitivity, which reflect adaptive, goal-directed behaviors.	Hyperparameter Tuning (10%): Some need for personalized strategies, recognizing that each individual's cognitive functioning is unique. Reinforcement Learning & Reward Sensitivity (20%): Balanced sensitivity to both immediate and delayed rewards, encouraging both short-term and long-term goal achievement.	Attention Allocation (30%): High ability to prioritize relevant stimuli and maintain focus on important tasks, reflecting strong cognitive control. Noise (10%): Low levels of internal or external distractions, suggesting a clear and focused processing environment.	Preference (5%): Minimal struggle to filter out distractions, allowing for focused and efficient processing.
single factor dominates completely, and each plays a significant role.			
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