INTRO: Hello, my name is Nick, and I’m going to explain all of the hyper-technical AI terms you have heard very simply using cars and engines as an analogy.

1. CAR ANALOGY: Before cars, people just rode horses, and it took forever to go places. Horses would die if you fed them the powerful gasoline that heated your house, so you just fed them weak hay instead.
   1. AI: Before AI, people had computers, and they couldn’t make sense of the massive amounts of data we were generating. If you tried to feed the entire internet into a computer, it would freeze up, so you just feed it a couple million rows of data instead.
2. CAR ANALOGY: Eventually, people invented engines, but engines on top of a frame with some wheels are kind of useless, because you can go really fast, but you can only go forward and you’d get stuck eventually
   1. AI: Nvidia invented GPU’s and the Neural nets that run on them, which basically made a WAY faster computer. This made it feasible to process the entire internet of data, but there was a big problem: the new neural nets couldn’t pay attention. Attention is a really big deal, even for humans; we consider ADD a learning disorder after all. When you talk to your friend who doesn’t actually pay attention to what you are saying, they just kind of respond to whatever the last words you said were when its their turn to talk, right? Same thing with the neural nets, which is called “overfitting”.
3. CAR ANALOGY: Henry Ford came along and invented the transmissions, steering system, reverse, etc… all the stuff that lets normal people instead of trained mechancis operate cars.
   1. AI: Google researchers invented a thing called a Transformer, which gave computers the ability to pay attention, OpenAI poured that entire internet of data into it, and vio la, ChatGPT came out. They let you control it through API’s and prompts which lets you send some text to a distant cloud computer that returns some other text.
4. CAR ANALOGY: What made the modern world we take for granted was when people realized they could drop the engine into all kinds of other vehicles, and made trucks, planes, construction equipment.
   1. AI: The basic idea of the transformer is going to make all kinds of crazy SH\*T beyond chatbots. Video transformers will enable autonomous driving by letting your Tesla pay attention to the fact that a jaywalking human is different then a human waiting to get into their car. Amazon and Meta use transformer “Reccomendation Engines” to decide what products/ads to show you. There will probably be a day where drug researchers type in “Molecules that prevent cancer X” into a molecule transformer that spits out … drugs that actually prevent cancer X.
   2. Perhaps the best use case is the fact that AI has made it REALLY EASY to develop more AI. I know because I did not know how to code 2 years ago and I now have an AI app in the apple Appstore that extends google translator form just text to translating literally everything in the world. Follow me to receive a completely free video series on how to build AI using AI!