

The Future Stack

The AI era is being built on five layers. Learn all five and you understand where the whole world is headed — and where you could help build it.

NIVIN'S FUTURE MAP · MILLIONROOTS



Chips & Memory THE BRAIN

The tiny silicon brains — and the memory (RAM) — inside every computer, phone, and robot. Every AI runs on chips, and memory is the #1 thing slowing AI down right now.

Try: open an old PC & find the RAM · build a Minecraft redstone circuit · logic-gate puzzles (AND/OR/NOT)



Energy & the Grid THE FUEL

Clean power — sun, wind, water, new nuclear — stored in batteries and sent through the grid. AI's giant brains are so power-hungry we must build a whole new energy world to feed them.

Try: build a solar toy or potato battery · find the nearest solar/wind farm · hunt every plug in your house



Robots & Machines THE BODY

Giving AI a body — machines that walk, grab, build, and deliver (coding + motors + sensors).

The hardest thing for a robot is *simple* human stuff. Teaching them the real world is a giant new industry.

Try: build a robot with LEGO Spike or micro:bit · join FIRST LEGO League · design a chore-bot on paper



Biotech THE LIFE LAYER

Treating biology like a technology — editing DNA, designing medicines, growing food and materials.

AI is now helping design medicines and understand life faster than ever — the other great exponential.

Try: extract strawberry DNA in the kitchen · grow seeds or crystals · draw the DNA double-helix



AI Ethics & Fairness THE CONSCIENCE

The humans who keep powerful AI fair, safe, and honest — part scientist, part judge, part detective.

The stronger AI gets, the more the world needs people who can spot bias, tricks, and broken rules.

Try: play "spot the AI fake" · debate a self-driving-car dilemma · find fallacies in TV ads (Think Again!)

Brain, fuel, body, life, conscience. **Which layer would you help build?**

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