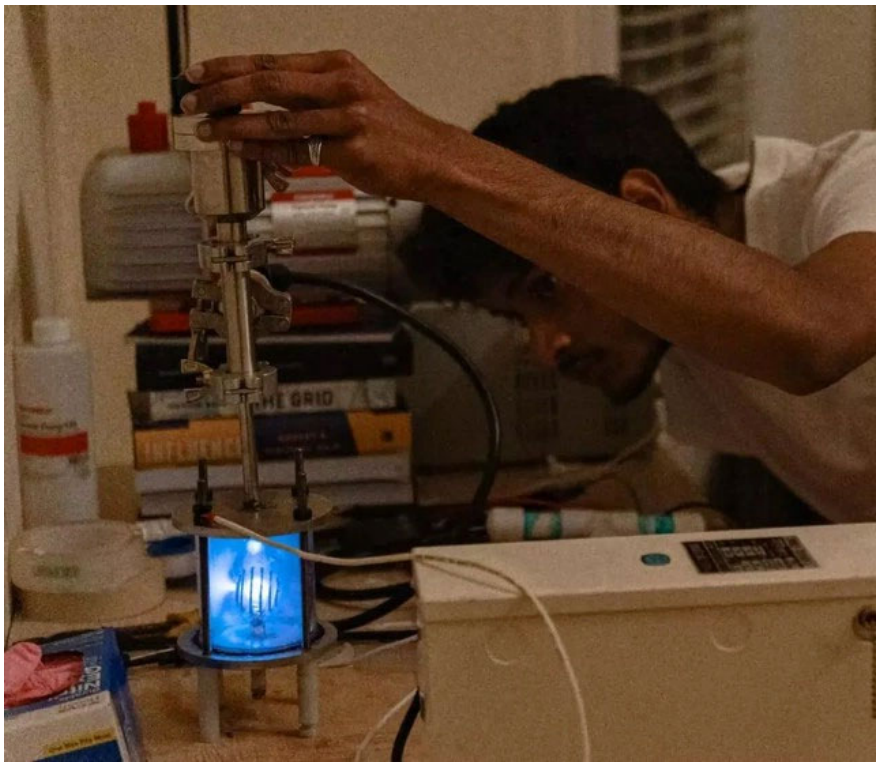
A student uses AI to create a nuclear reactor at home

Support from AI Claude helped a student in Canada successfully build a model of a nuclear reactor without any practical experience.

Hudhayfa Nazoordeen, a student and mathematician at the University of Waterloo (Canada), built a nuclear reactor right in his bedroom.



Hudhayfa's reactor is based on the principle of nuclear fusion, using deuterium - a stable isotope of hydrogen, to trigger a nuclear fusion reaction. This process has almost zero carbon emissions, so it has the potential to produce clean energy, which is expected to become the main energy source of the future.

Hudhayfa's model is just a small reactor and cannot be applied in practice. However, Hudhayfa's success shows the potential of applying AI technology to scientific research.

AI Claude assisted Hudhayfa in calculating complex mathematical equations, helping to simulate and predict chemical reactions, helping to optimize reactor design to ensure safety and efficiency. Based on Claude's calculations and predictions, Hudhayfa gained a better understanding of how nuclear reactors work and how to operate them safely.

However, many people are concerned that risks can arise when powerful technologies like AI Claude are used by people without sufficient expertise in sensitive areas like nuclear.