

What are uses and limitations of AI in drug dev.

Achievements? where India stands

Drug development has embraced the artificial intelligence to make the development process quicker and safer.

Uses of AI in drug development

*① Identifies the druggable proteins. that can interact with the drug. This reduces the lengthy and expensive lab tests.

② The protein structure can be predicted for static and combination of proteins.

③ It increases the accuracy of the drug development process.

It has limitations such as

Limitations

① It uses neural networks which demand vast amount of data. Any mistake in the data feed can make the predictions wrong.

② The cost is high as the GPUs are used in drug development.

Achievements are in place such as Alpha Fold-3 predicted the interaction with proteins with 96% accuracy.

India can greatly add on to drug development using AI.

Creating AI skilled workforce in drug research and hardware processing and fabricating centres can accelerate India to be one of the key players in this field.