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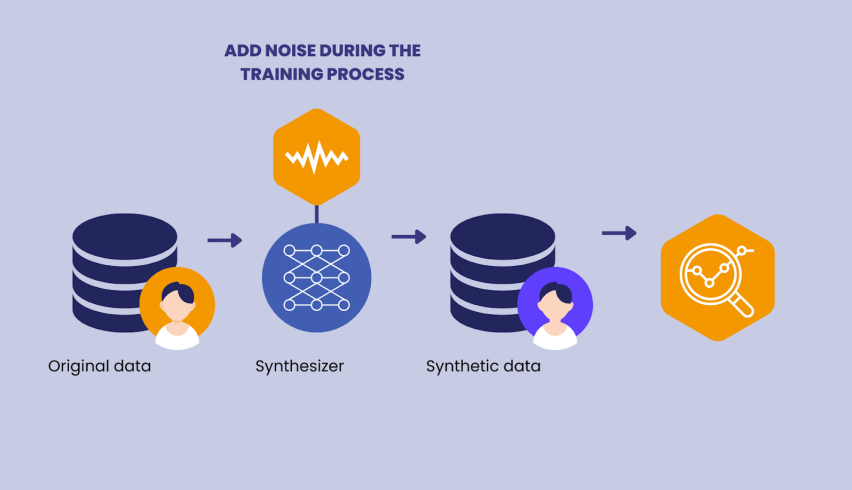
Differential Privacy

Differentially-private synthetic data is a type of synthetic data that is generated using differential privacy techniques. Synthetic data, which is generated by a computer algorithm instead of being collected from real-world sources, has many applications, such as in testing machine learning algorithms or privacy-preserving data analysis.



Limitations of differential privacy:

As for any technology or framework, differential privacy has its limitations.

The main one is the trade-off between privacy and utility. Differential privacy adds noise to data to protect the privacy of individuals. Still, this noise can also reduce the utility of the data, making it less accurate or useful for certain types of analysis. This trade-off can be difficult to manage and requires careful balancing to balance privacy and utility.
