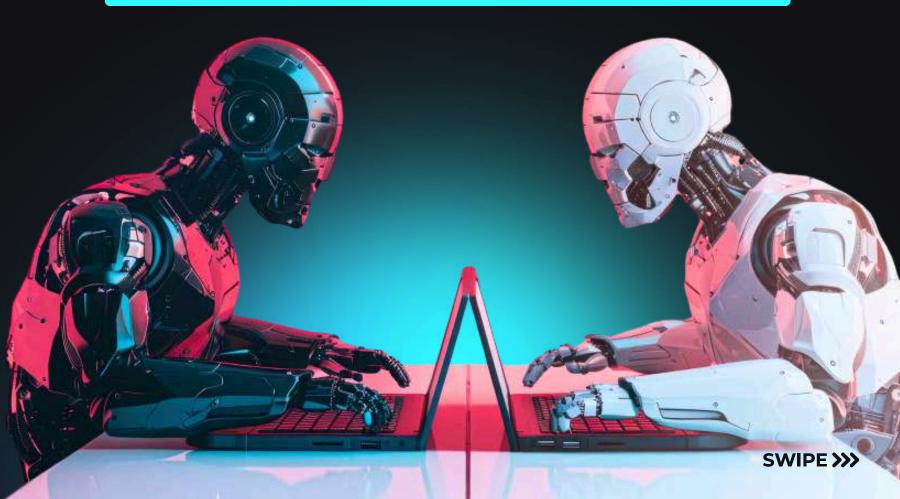
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KEY DIFFERENCES YOU MUST KNOW!



KEY FOCUS

Generative Al

Learns the underlying data distribution to create new, original samples.

Predictive Al

Learns relationships in data to forecast outcomes or classify inputs.



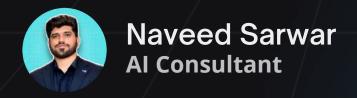
TRAINING OBJECTIVE

Generative Al

Minimize differences between generated and real data. Often uses adversarial objectives (e.g., GANs).

Predictive Al

Minimize predictive error on labeled tasks (regression classification, or next step prediction.



REPRESENTATIVE METHODS

Generative Al

GANs, VAEs, DCGAN

Predictive Al

RNN-based language models, Transformers, (regression/classification models)



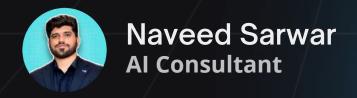
OUTPUTS

Generative Al

Synthetic images, audio, or text that are novel yet consistent with the training data.

Predictive Al

Predicted labels or values (e.g., next word, class label, forecast).



APPLICATIONS

Generative Al

Art generation, style transfer, synthetic data creation, drug discovery (molecule generation)

Predictive Al

Sentiment analysis, stock price prediction, medical diagnosis, language translation and reccomendation systems



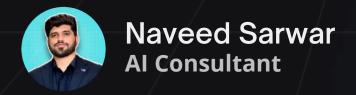
CHALLENGES

Generative Al

Mode collapse, instability, evaluation difficulties of generated samples.

Predictive Al

Data imbalance, overfitting, interpretability challenges for arge scale predictive models.



YOUR AI TOOLKIT JUST GOT SMARTER!

WHICH AI ARE YOU EXPLORING RIGHT NOW?



FOLLOW ME

Naveed Sarwar



