Gen AI Intro (Gen ai notus)

- AI sytems have become very good at turning text prompts into Images / videos This is Gen AI "Generative AI" as it generates commenting. This term is with commonly for this but bent also encompassed LLM.

- This generation of Emogra and Vidros works using a process called "Diffution" almost equivalent to Brownian motion we see as particals diffuse but in backmards + high dim space hence its name

in the prompt How

- This prompt is passed gry riby

to a AF model

Ability

Ability

Man 24

Man

- Not imagine a prompt just for a persons face at first the pixel intensities are Chosen randomly solle Image I vid Looks like pure hoise, from here his pure noice video is passed into a transformer (Like (LM one) but instead of outputing taxt it outpris another : Image / video that has a little bit of structure This new Ingluides is added to the pure noise Impluides and then its passed in the transformer again this new img/vid has more Structure and is getting closer to the prompt and some repeat this structure and over until the model thinks its prough at which point the Ing / Lid matches the prompt (this can be Ex 50 iterations)

-> [Transformer] -> - Step by strp the transformer Shapes pur pure noits into A. vid oring we anstell for.

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