Levenshteine and semantic scores for ovallating LLMS

- Whol is Levershting algorith
 - · Levershfine distance messers how maky edits (insertions, deletions, substitutions) you need to turn the string into another

Fx trak: "hello world" Diff: "p"+ "a" (I substitution)
model: "hallo world"
missing "|" (I deletion)

Ex if true had "worl" And 1 inserting Ex Of 1'311 is in Diff a) Levenshtine distance = 2

- . great way to mesure text simillarity (smaller diff = closer)
- For LLMs using Linithtine Algo
 - , When generating best we work to know, how close is mode! output to reference answer
 - · for factual estructured or short and like (Make, coding etranslation) you can compare model expet to grown trak using Levershtine , gires score between

Simmilarity = 1 - levenshtein distance
max (cental, len(6)) => 1.0 = perfect O(totally Diffland 2 (idt htical) 2.8= almost some 0- 4 = 8 m/h gift

- Why his Levershilihr vs. semantic score (Bley, Rouge etc)

. fextual simularity + meaning simularity

Ex Truth: " The copital of france is paris! Model A: " pavis is capital of france "

Model B: "Frances main city is paris" & (some meaning, dife words)

Model C: "Frances capital is Igon " X (looks similar, wrong meaning)

- · Model A) high Levenshting, high meaning score = Diff words correct (ob)
- . Model (high Lerreshtine , Low meaning score =) close looking box wrong (BAL)
- in eral make 20 plots Levershtike vs semantic like Rouge to misure both correctly 105