Buge moreresadeple

- 1) Rogereum no npodelair "rama elbera parry"
- 2) BPE byte-pair Encoding

"lalla", "elbrea" "parey"

"asas", "asac", "sbrg"...

kgrnege.

1) ["a", "8", "6", "2", "9"] = ceologie

- 2) "ad" Maxoque napy moverob, kompar bemperaement 3) "ad" Maxoque napy moverob, kompar bemperaement Taye beero. Dodabere e è b cubbapt.
- 4) "aa + bal = "aaa"

3) Word Piece

- 1) ["a", "δ", "β", "2","g"] = ceologie
- ["nog", "crazae"] 2) Score = freq of pair [freq v.]x[freq vs] ["nogc", "kozal"]
- 3) gosabure u nagre mansones veren

4) Unigram

1) Clobape - bce bojuermere moverer. Kanpurerp, BPE c marc. ceologness. ["Sau", "Syu", "Sax"]- Kopnyc

2) Dus komgoro mokeka Cremaen kackottke queusuumes вероятность при его удалении. Igantell me, of komplex bep-me greekblearmer registive be to,

 $(1 \quad (1 \quad (1))$

Ljørsebbee regerer

$$P(w_1, ..., w_t) = P(w_i) \prod_{i=1}^{T} P(v_i | w_1, ..., w_{i-1})$$

N-gram language model

P(wilw,, ,, wi-1) 2 P(wil wi-1, -, wi-n+1)

$$P(w_{i}|w_{i-1},...,w_{i-n+1}) = \frac{P(w_{i-n+1},...,w_{i})}{P(w_{i-n+1},...,w_{i-1})} = \frac{count(w_{i-n+1},...,w_{i})}{count(w_{i-n+1},...,w_{i-1})}$$

Heipocemebbee zukobbee mogem.

+ He kago xposeume n-zpeuses

- ybernressee onsea ybernresseen Tit

exemplement expendent mogent (RNN) 1 Suon h -> RNN -> RNN Teacher forcing $\partial_{W}L(h_{i}) = \frac{\partial L(h_{i})}{\partial h_{i}} \cdot \frac{\partial h_{i}}{\partial h_{i-1}} - \frac{\partial h_{i}}{\partial W} = \frac{\partial L(h_{i})}{\partial h_{i}} \int_{j=i}^{i} \frac{\partial h_{j}}{\partial h_{j-1}} \frac{\partial h_{i}}{\partial W}$