Into to UMS

Activity Sheet -4 83) TP -> [ the, cat, on, the; mat] -> 5 FP - [sat, red ] is 2 1000 1000 FN -> [ sitting, a, is, argay ] -> 4 Pourision: 501=0.714. Substitute our survivise is  $\frac{5+2}{\text{Recall} = 5 = 0.556}$   $\frac{5+4}{5+4} = \frac{2 \times 0.714 \times 0.556}{14 \times 0.556} = 0.625.0 + (1.0 \times 1.0) = 1.00 \times 1.00$ 0.714+0.558 (1.0x2.0) + (7.0x1.0) = 122:0+114.0 Qu Matching biggians -> [The cat, got on] -: 2. 16 Pin 2 + 1.333.3 - Soumoningin c= length of generated sentence. If we will a seference a = 9

c X x 30;

BP = e (1 = 4) = e = 2/1 2 0 0 0 0 0 88 Now for BUEV-2:

Matching words -> 5

Total Geords -> 5 P.: 5/2-10-\$/40/201- (P.) x 201 -000 - 2/2 2/3- (P.) x 201 - (P.) x 201 - (P.) x 201 - 2/2 log(p)= log (0.5/14)=-0.336 · log(pr)= log(0.333)= 1-1099 1: + 100 / (logp, + logp.) = 1/ (-0.336-+.049==0.718

BIEU score · D. Goby x O. 488. 2 0. 431

So the reed to compute dot product for each pair of reference and candedate embedding: For "The": The the = (01×0.2) + (0.2×0.3) = 0.08 For The + cat = (0.1×0.1) + (0.2×0.9)=: 0:19. The +medical = (0.1x0.7)+ (0.2x0.1)= 0:09 Fon " dog + the = (0.9 x 0.2) + (0.1 x 0.3) = 0.2 F dog+cal-= (0.9x0.1)+ (0.1x0.9)=0.18 dog + meaned = (0.9 x Q.7) + (0:1 x O.1) = 0.64 For "backed": bouked + fle = (0.8 x 0.2) + (0.9 x 0.3) = 0.43 boulked + cal= (0.8 x 0.1)+ (0.4 x 0.4) = 0.89 backed + meoried .. (0.8x 0-4) + 10.9x0:1) - 0.65 b . a mondar. " you Recall:

RERT = 1 1019 + 0.64 + 0.89 = 0.575 candidate: 10.1×0.2) + (0.3×0.2) + 0.08. The + dog = (0.2 × 0.9) + (0.3 × 0.1) = 0.21 = ... The + backed = (0.2 × 0.8) + (0.3 × 0.9) = 0.43 100 6. 1. 10. C. 6. 1. 10. 10. 5. 6. 3. 6 cal-+ the= (0-1x01)+10.9x0.21=0.19 cat + : dog = 0:18.

Date\_ cat + backed = 0.89 mound + the = (0.7x0.1) + (0.100.2), 0.09 mound + dog= (0.7×0.9)+ (0.1×0.1)= 0.64 mound + backed= (0.7×0.8)+ (0.1×0.9)= 0.65 FBERT = 2 x PBERT X RBERT

PBERT + RBERT 2 2 x 0.659 + 0.573 0.659 + 0.543 FBERT = 0.615]