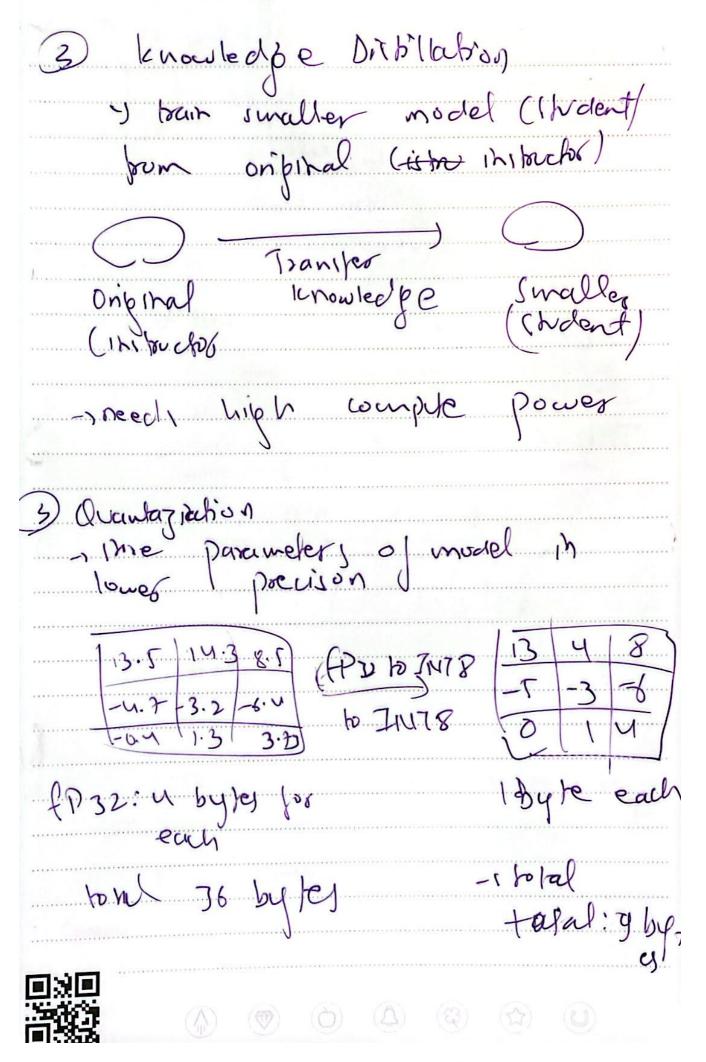
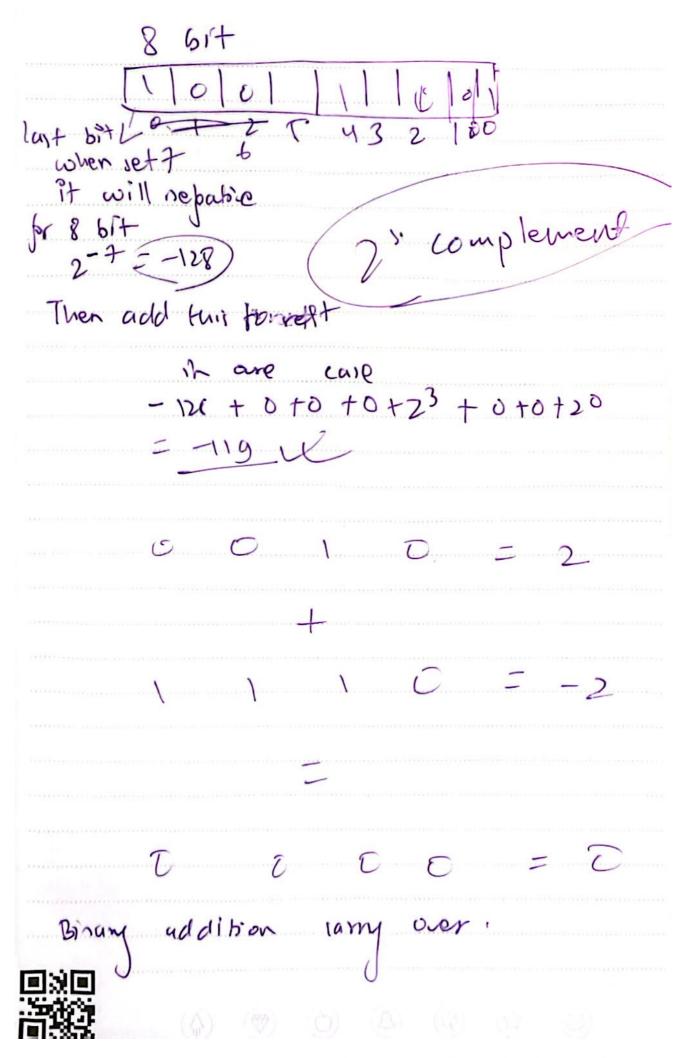
Quantazation Fundamental
J G1PT - J 80613 (in 2022)
-) Th 2023 / 753-) 2806 required
-, Soin Model Compressión
D. Pruning:
temound (estain layer) sot which are not an absolute
relativy
Promples Syrapses
Puning yes
Pruning DD newrons from 3 to 2
18 am 3 TO 2
E William Harrison



Scanned with CamScanner

- quantaijation error, challange of
-) Cranto Model -> fraco banjonner model quantarjation.
Dasa7yPej
Diniputed MB JD-J2n-1
7 8 bit -10-28-7 = 211 211 101111111111111111111111111111
$\frac{128 + + + \cdot \cdot \cdot 2^{\circ} = 0}{2^{7}}$
3 Signed Mt8 -) also represent nepalic -) [-2^-1 12^-1 -] runge





In Horels to sch. 12+8 · int 16 tone . vints . Int 2 inted torch. iinfo (wrch. vint8) 3 Hound port: 3 components a) (pn -) positive a repaire D Exponent (range)

- Impach the representable

range of number Docision (precision): Impacton
praision of the number, FP 32 BF: 16 -> sipu-1 1 bit Garant Crange | P bit
faction: 76,7
106d: 16 bit Trenglow & high -) different formales por decoding Positive 2 repaire values

Forch. float bo 5 float to fort 32 hoat by Precision maximon 1032 - bait ~10+3X ~100U better fp 16 \$261 V pood 156 16 rulve=1/3 -) jonna bit bu bit t= touch. tensor (value, dhype: lorch.
Hoafby (tensor node) Downcal hub - lonvert hiphes data type to lover d= touth . rand (1000; dry pe=forch float32) s d. to (allype: 5 float 16)



torch. dot (d, ..)

Matrix Moltiplication

Thesoit will be different plogs of duty Pros: Fedred memory for front -) Efficient GPU worning -1 large batter size -1 1/ (rease in speed Coas: les precision. Mixed Precision training - competation in lowest precision (P16/Bf16)(P8) -, Thre I ydale weightich higher precision f P 72

