人(b, Pa) M建工是 MSE二是

6.8,000

learn
fast

Optimizing

Parameters

L dill

& chose loss finetion wiselyst

Entropy

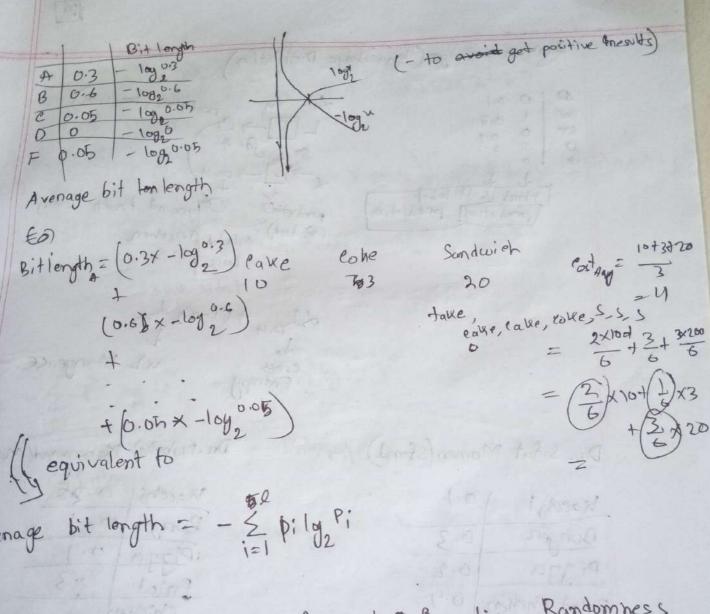
Randomness /chaos (Measurement of these)

Information Information

P(E) 22 [where we knows the output]

P(E)=> [whe are not some about output]

Ly Higher Entropy



Entropy => Measurement of east, Information, Randomness

Dank knowledge (knowledge Distillation) To a predieton (teeaehan) prediction

Dr. Sifat Momen (Sfm1)

| kacchi | 0.) |
|---------------|-----|
| Bungen | 0.3 |
| Pizza | 0.2 |
| fried ehrken. | 6.9 |
| 2=1 | |

H(Sifut Bhai)

= 1.85

[check Any bit length equation]

Dr. Nubele) Mohammed (Nba)

= 1.60 (Slightly less

11

What is the any earle length it Dn. sifet uses my cole book.

(70.1 *1 + 03 * 63.32 + 0.2 * 3.32 + 0.4 * 1.73 = 2.43 6

Cenass Entropy)

Equation & 7 - 12.45 (Extra

Equations

Propose Entropy =76.2.45 [Extra 0.6]

- Spring | Propose Entropy =76.2.45 [Extra 0.6]

- Spring | Propose Entropy =71.85

- Spring | Propose Entropy =71.85

KLCSM = - S P: log P! - (- S' P: log P:)

Entropy

Entropy

UL(S,N) not necessary equals to UL(MS)

Me

$$KL(P, \hat{P}) = -\frac{4}{2} P_i \log \hat{P}_i - \left(-\frac{4}{2} P_i \log P_i\right)$$

$$\frac{43}{(-10\log 0 + 0 + 1\log 1 + \cdots)} = 0$$
(This will be eliminated)

$$= -1.10g \hat{P}_3$$
$$= -10g \hat{P}_3$$

loy loss = enoss Entropy loss = loganithomie loss = Negative loy loss

$$S' = \begin{bmatrix} s_2 \\ s_3 \\ s_4 \end{bmatrix}$$

$$SoHmax(S) = \begin{bmatrix} s_1 \\ s_2 \\ s_4 \end{bmatrix}$$

