

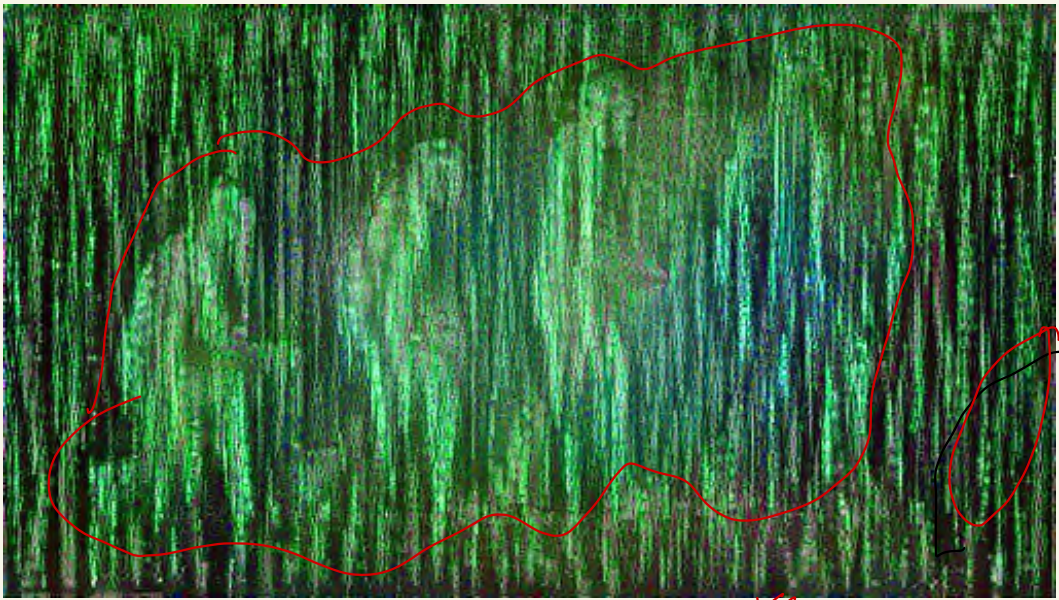
Jupyaes → Sapnil Sir.

→ Yudi Sir

→ Jyoti

→ Satish (DB) us

→



1) Use Case ...?
 1) Why we need AI [Photoshop soft - - -].

→ Scan up
 → Down
 → Scan

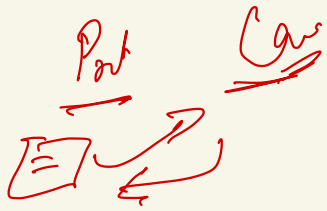


50-60. (5-8 part
 ↳ 800 - (200 * 8)

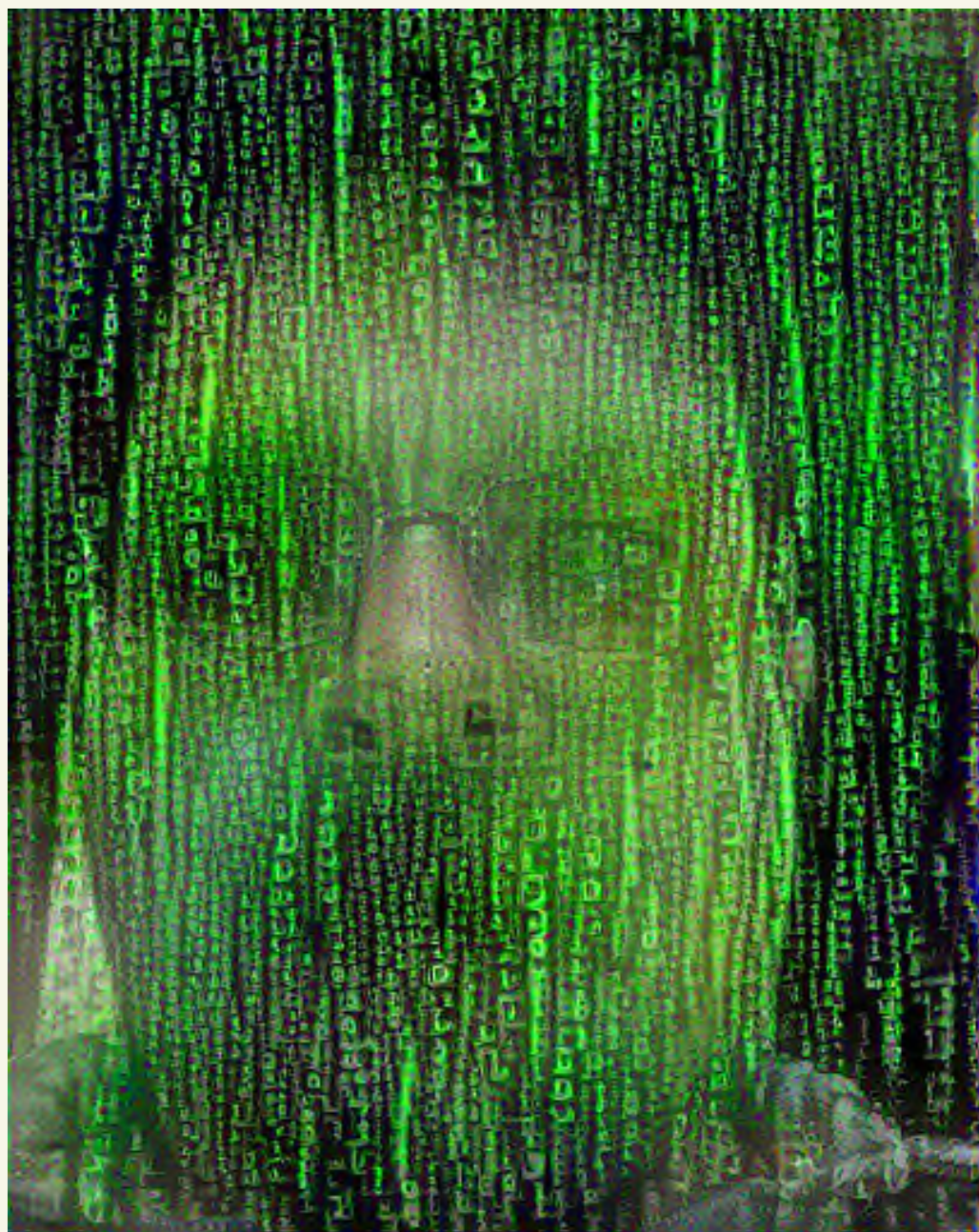
1. a) finding pattern for Occurrence B. in Part
 b) scene + AI camera [- - - -]

1000-100-00

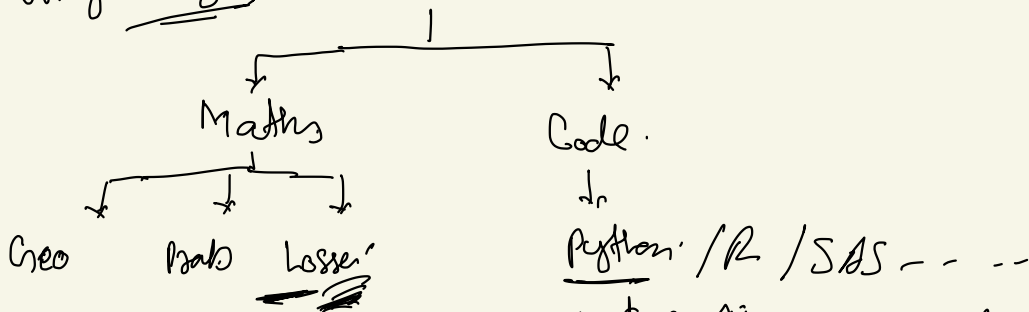
2. Cong intelligence.



IT 18
 C++ Pm
 Per. Appl = 0



Any Algo.



Domain Expert:

new - Cost + trust

Proposition + By the
Cost share

No. of
nodes



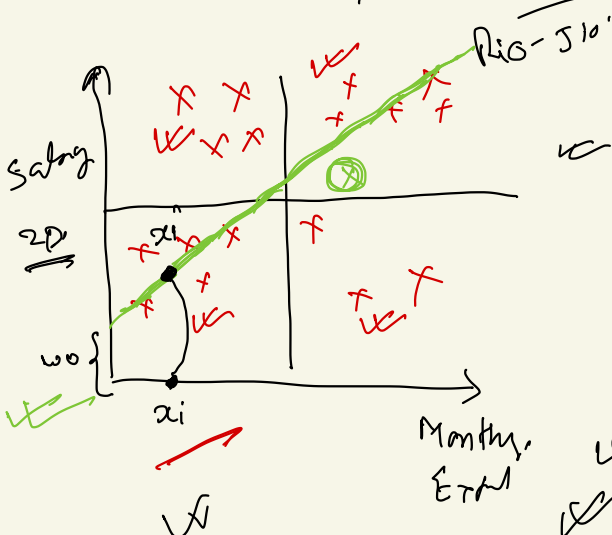
HC
HN

value prop + Savings
element
5-10%

Relaxo

PVR

Cost

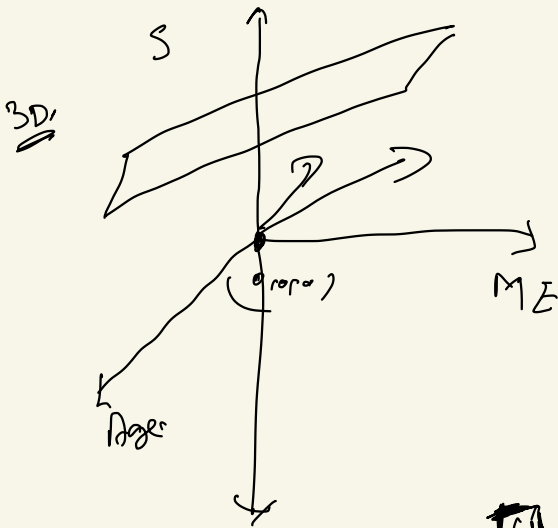


$\frac{10}{100}$
 $\frac{100}{100}$
 $y = f(x)$
 $y = f(100)$

$$f(x) = w_0 + w_i x_i$$



$m x + c$
 $c = w_0 ; m = w_i$
 $x = x_i$



$$y = w_1 x_{i1} + w_2 x_{i2} + w_3 x_{i3}$$

$$\hookrightarrow y_i = w^T x_i + w_0$$

$$y_i = w^T x_i$$

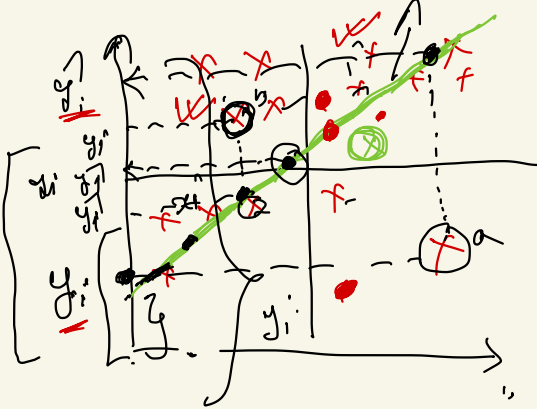
$$w_0 = 0$$

$$y = mx + c$$

$$\begin{aligned} -50 &\rightarrow P \\ 500 &\rightarrow P \times 10 \\ 5000 &\rightarrow P \times 100 \end{aligned}$$

hyper

model



$E = \text{loss}$

$$a \rightarrow y_i - \hat{y}_i \quad \text{loss} = \frac{1}{2} (y_i - \hat{y}_i)^2$$

$$b \rightarrow y_i - \hat{y}_i \quad \text{loss} = \frac{1}{2} (y_i - \hat{y}_i)^2$$

$$(y_i - \hat{y}_i)^2 \quad \text{loss}$$



Gradient descent

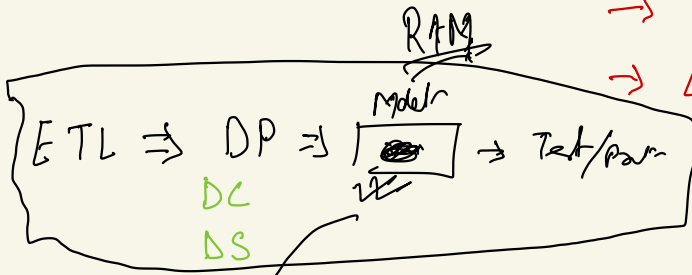
$$\frac{(y_i - \hat{y}_i)^2}{2} = 0$$

Lig leg: \Rightarrow Row

\Downarrow
Information

\Rightarrow Predict

- \rightarrow Numerical: median
- \rightarrow Categorical \rightarrow one-hot / get index
- \rightarrow Scaling (W, C)
- \rightarrow fit to model
- \rightarrow Predict unseen data
- \rightarrow eval the score
- \rightarrow one-hot / get-index
- \rightarrow Flask (Predictions)
- \rightarrow EDA (Plotting of data)



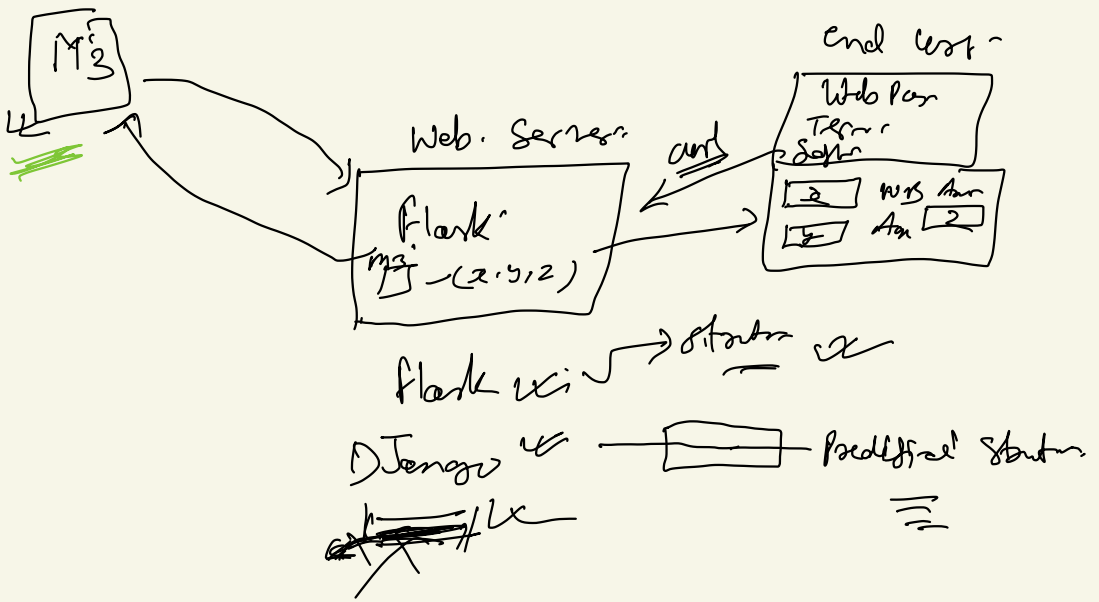
input blocks.

X1	X2	X3	X4	X5	X6	X7	X8	Y
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-

----- / 1

$A_3 \Rightarrow M_3$

fc	At
A1	M1
A2	M2
A3	M3
A4	M4
A5	M5



D

VM vs Docker

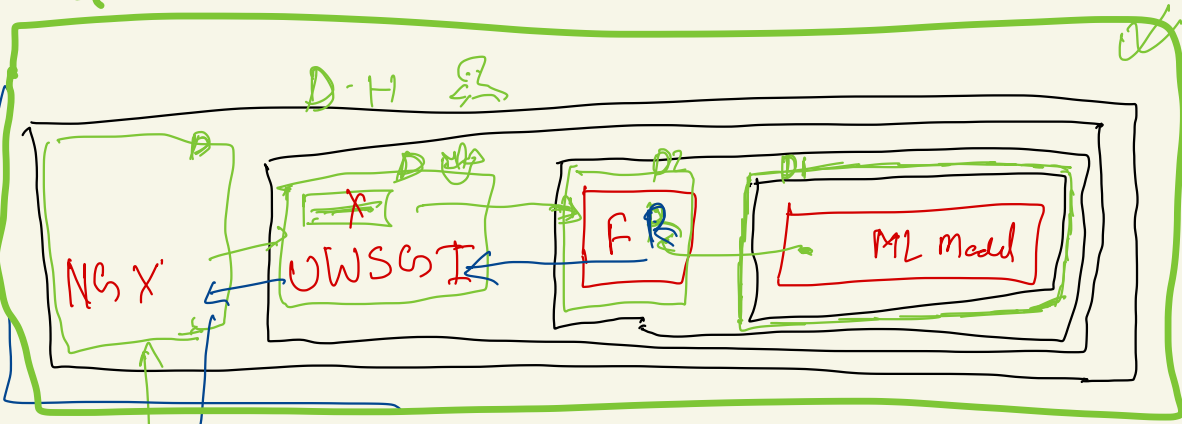


Image + CNN



OS + Py (-version)

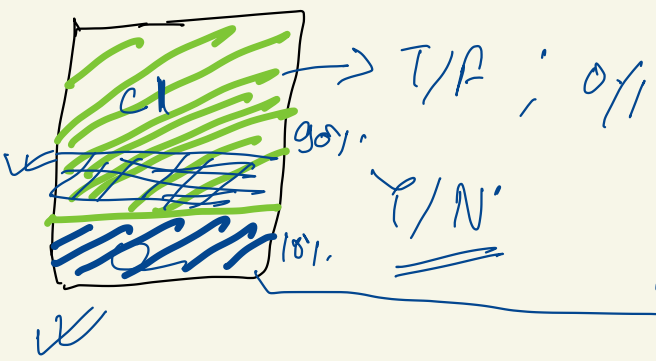
w/m x
Link

Kali x
Ubuntu
Sudo x

$$Acc = \frac{\text{No. of correctly classified}}{\text{Total no.}} = \frac{9}{10} = 90\%$$

$$\frac{7}{10} = 70\%$$

2-class



$$acc = 90\% \text{ or } 0.9$$



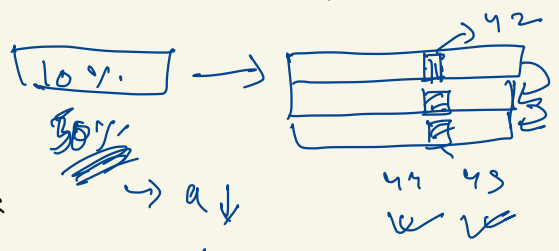
$$C1 \rightarrow C2 \quad C1 \cdot Q1 = \frac{90}{100} = 90\%$$

$$C2 \quad Q2 = \frac{10}{100} = 10\%$$

up sampling
down sample



60 - A
40 - B



Integration with a, $\begin{matrix} A \\ \boxed{\begin{matrix} \rightarrow 0 \\ \leftarrow 1 \end{matrix}} \end{matrix}$

$IB \rightarrow BL$

~~20~~ | ~~EX~~ | ~~loc~~ | ~~h~~ | ~~Y~~ | ~~P~~ | ~~A~~ | ~~TA~~ | ... | ~~20~~

20-24%
60-70%

Regression → Not over

Classification

0.5 5.6 0.2 2.5 1

75% - 80%

Calculated

AT
0-
0P
..

001
101
110

10000

* Confusion Matrix

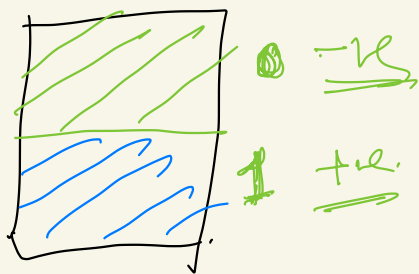


\checkmark TN \rightarrow $A=0$ \checkmark
 \checkmark \rightarrow MP $= 0$ \checkmark

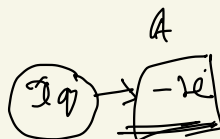
\checkmark TP \rightarrow $A=1$ \checkmark
 \checkmark MP $= 1$ \checkmark

\times FP \rightarrow $A=0$ \times
 \times MP $= 1$ \times

\times FN \rightarrow $A=1$ \times
 \times MP $= 0$ \times

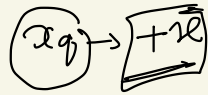


\checkmark FN \rightarrow



Negative data incorrectly.

\checkmark FP \rightarrow
 \checkmark



Positive data incorrect.

\checkmark $(xq) \rightarrow$ $\underline{-ve} \rightarrow \underline{-ve} \rightarrow$ TN
 \checkmark $\rightarrow +ve \rightarrow$ FP

\checkmark $(xq) \rightarrow$ $\underline{+ve} \rightarrow \underline{-ve} \rightarrow$ FN
 \checkmark $\rightarrow +ve \rightarrow$ TP

		Predicted				
		A	B	C	D	E
Actual A	A	TP _A				TN _A
	B		TP _B			
	C			TP _C		
	D				TP _D	
	E	TN _E				TP _E



$$TPR \rightarrow TP/P \quad \uparrow$$

$$TNR \rightarrow TN/N \quad \uparrow$$

$$FPR \rightarrow FP/N \quad \downarrow$$

$$FNR \rightarrow FN/P \quad \downarrow$$

$$A \begin{array}{c|cc} & P & N \\ \hline P & \text{TP} & \text{FN} \\ N & \text{FP} & \text{TN} \end{array}$$

It has false predicted the positive values

$$Z \begin{array}{c|cc} & P & N \\ \hline P & \text{TP} & \text{FN} \\ N & \text{FP} & \text{TN} \end{array}$$

Good

$$\begin{array}{c|cc} & P & N \\ \hline P & \text{TP} & \text{FN} \\ N & \text{FP} & \text{TN} \end{array}$$

UB

ACC

ACC

$$\begin{array}{c|cc} & P & N \\ \hline P & \text{TP} & \text{FN} \\ N & \text{FP} & \text{TN} \end{array}$$

P A

$$\begin{array}{c|cc} & P & N \\ \hline P & \text{TP} & \text{FN} \\ N & \text{FP} & \text{TN} \end{array}$$

900 T

100 N

1000

UB

$$\begin{array}{c|cc} & P & N \\ \hline P & 900 & 100 \\ N & 0 & 0 \end{array}$$

$$TPR = \frac{0}{100} = 0\%$$

$$FPR = \frac{0}{900} = 0\%$$

$$TNR = \frac{900}{900} \rightarrow 100\%$$

$$FNR = \frac{100}{100} = 100\%$$

$$\begin{array}{c|cc} & P & N \\ \hline P & \text{TP} & \text{FN} \\ N & \text{FP} & \text{TN} \end{array}$$

$$\begin{array}{c|cc} & P & N \\ \hline P & 900 & 0 \\ N & 0 & 100 \end{array}$$

Best of the model