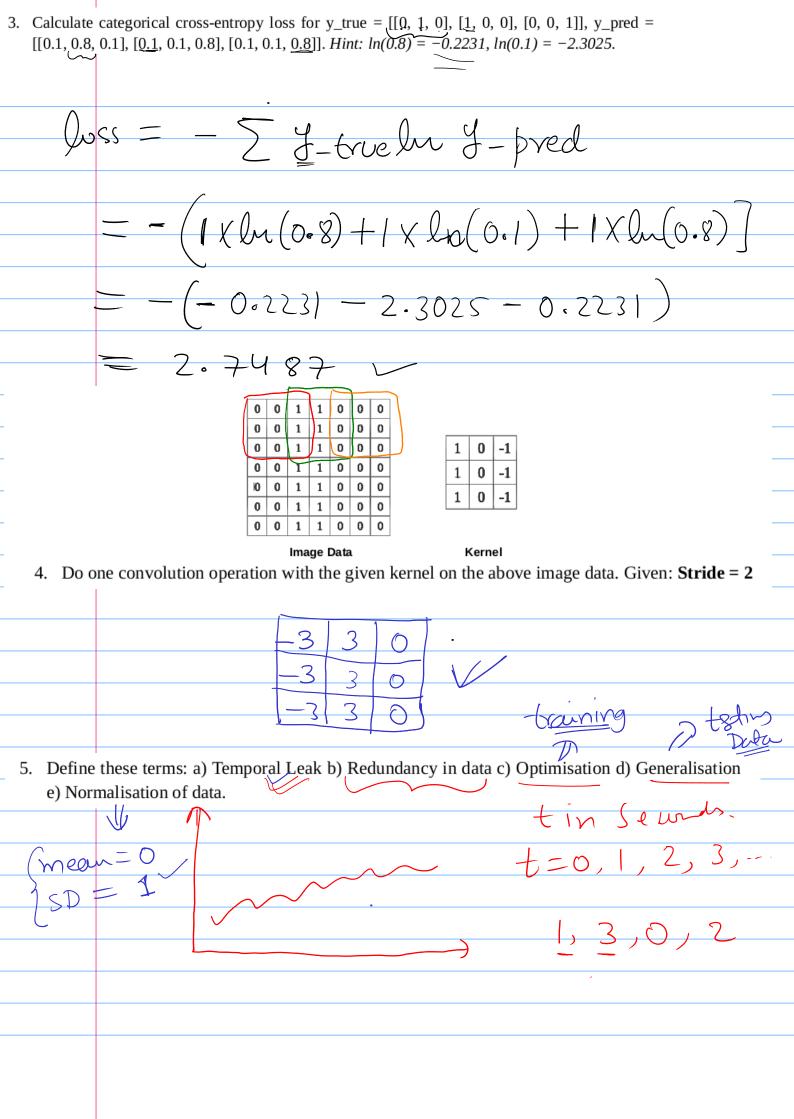
	2 4 1		
) Rate the	Or,	
	\bigcirc		
	(Easy)		Difficult).
)	5	l O
	Easy	Moderate	Difficult.
1. How worki		om metric function? Wri	te 3 metric functions with there
	2200	M	enc.
	\(\lambda\)	, , ,	
	Usedto	, (I	st to
	Update Weights.	eua	luate model.
	mae,	mse, acco	ray, binary
	categoria	col - A	, .(on
2.	What is maxpooling	operation in Con	vnets? Explain.
	ψ	,	60×60 →30×30
Doi			$\frac{2}{(5.5)}$
	Redu (,	ver reau	ive ment of more
	L> tin	re for tra	m 1 m -:



Make a custom loss function which returns (y_true - y_pred)⁴ as loss. Also write the compile statement for the model. *Hint*: tf.pow(), tf.subtract()

def custon-loss (y-true, y=pred):

2.5/3 Sub = tf. subtract (y-true, y-pred)

return tf. pow (sub, 4)

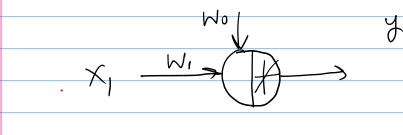
model. compile (optimiser = 1 xmsprop),

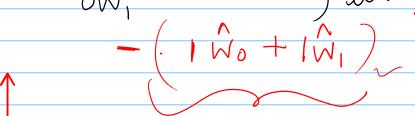
loss = custom-loss,

metrics = ['mae']

2. A dense neural network is formed in 2-5-5-1 fashion. Calculate the total number of trainable parameters (weights).

3. A loss function depends upon two weights w0 and w1 as loss = w0 + w1. Find out the direction in which this loss can be minimised. *Hint: Gradient Descent*







$$W = \begin{bmatrix} 0 \\ - \end{bmatrix}$$

4. WiFi network strength was measured by changing distance from router (D), router antenna length (L) and manufacturer (M) (Nokia = 0, TP-Link = 1, D-Link = 2) and a table was prepared. Write a code/pseudo-code (Neural Network) for predicting Wifi network strength at some set of values (D', L', M').

