	train the model from scratch	fine tune the pretrained model.
Size of The data Set	Fine tune the lower layers of the pretrained model	fine tune the output dense layer of the pretrained model
	Data similarit	-y

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-	Date		

pre-trained model is a model created by some one else to solve a similar problem. Instead or building a model from scratch to solve a similar problem

b. Freeze parameters (Meights) in model's lower convoluational layers.

freezing a layer prevents its Weights From
being modified. This technique ais often used
in transfer learning where the base moder

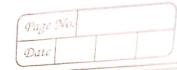
setting trainable = false for freezing the layer
moder. add (convap (64, C3, 3), trainable = false))

layer freezing is process of freezing the Weights
of specific layer in deep learning network so that
these wights don't change during training.

c. Add custom classifire with several layer of trainer trainable parameter's of model.

We have compile intermation about the date of development and trainable parameter Counts of if you're not familiar with the MINIST dataset it's a collection of 0-9 digits as images.

These images are gray-scale and thus each image (an be represented with an input shape of 28x 28x1. As shown in Lines.



Us. to take advantage of that the model has Scratch.

to do is to gradually.

- d. Train classifier layer on training data available for Hask.
- The Heights in those layers to be re-initialized. base-model. trainable = Faise
- The next step is to add new trainable layers that will turn old features into predictions on the new dataset.
- This is importent because the pre-trained mode
- is loaded without the final output layer

 A final dense layer with units corresponding to

 the number or output expected by your model
- fine-tune hyper parameters and untreeze more layer as needed.
- The optimal hyper parameters, let use first
- Understand these hyper parameters:

 I earning rate, batch size, momentum, and high

 weight decay. These hyper parameters act as

aspire innovation

	Page No.	
	- The learning rate is high then training many	
	- The learning rate is high, then training may not to converge or even diverge. - hyper-parameters for your model is hard.	
	- hyper-parameters for your model is hard.	
	Especially if yo do it manually	
	= select—the	
	- Steps hyperparameter tuning:	
	- Steps hyperparameter tuning:	
<u> </u>	model.	
	2. Review the list of parameter's of the model	
	build the HP SPace,	
	3. Finding the method for searching the hyperpara-	
	meter space. 4 Applying the Cross varidation Scheme approach.	
	4. Applying the cross-validation scheme approach. 6. Assert the model score to evaluate the model.	
	5. 7/ 03 cits 11/00 of 5 cold 10	
	CON (145100) 3-	
_	We have dissourced in detailed Study	
(-	ot opject detection rejud travetestion reasoned of	
	CNN dochitecture.	
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