Testing loss curve wrt epoch What type of bias you see(if a	s.[10 Marks] • Check any), explain. [5 Marks m.com/analytics-vi uport drive t/gdrive')	if your model is b	biased or not by using at-	Overall accuracy [10 Marks] o Training least 2 metrics ex. Confusion Matrix [15		
os.environ['KAGGLE_C						
/content/gdrive/My D	My Drive/Kaggle					
[5] !ls 100-bollywood-celebr bollywood_celeb_face bollywood_celeb_face [6] !unzip *.zip	ity-faces.zip bol s_0 kag		faces2	local copy (useforce to force	download)	
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<pre>[11] !pwd /content/gdrive/My D [12] #Folders Shraddha_Kapoor = '</pre>	rive/Kaggle /content/gdrive/My	Drive/Kaggle/	Kapoor, Richa_Chadda, /bollywood_celeb_faces llywood_celeb_faces2/S		iel_Shetty, Shruti_Haasan	, Sidharth_Malhotra,
Randeep_Hooda= '/con Tapsee_Pannu='/conte Suniel_Shetty= '/con Shruti_Haasan='/cont Sidharth_Malhotra='/ Disha_Patani='/conte	tent/gdrive/My Drivent/gdrive/My Drivent/gdrive/My Drivent/gdrive/My Drivent/gdrive/My Drivent/gdrive/My Drivent/gdrive/My Drivent/gdrive/My Drive	ve/Kaggle/boll /Kaggle/bollyw ve/Kaggle/boll e/Kaggle/bolly Drive/Kaggle/b /Kaggle/bollyw	wood celeb faces2/Ric Lywood celeb faces2/Ra wood celeb faces2/Su Lywood celeb faces2/Su wood celeb faces2/Sh wood celeb faces2 wood celeb faces0 wood celeb faces0 wood celeb faces0/Dis wood celeb faces0/Arj	undeep Hood' iee Pannu' iniel Shetty' ruti Haasan' //Sidharth Malhotra' tha Patani'		
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Randeep_Hooda Sh Rani_Mukerji Sh Ranveer_Singh Sh Richa_Chadda Sh Riteish_Deshmukh Sh Saif_Ali_Khan Sh	ahid_Kapoor S ah_Rukh_Khan S ilpa_Shetty S raddha_Kapoor T reyas_Talpade T ruti_Haasan T dharth_Malhotra T	uniel_Shetty unny_Deol ushant_Singh_R aapsee_Pannu abu amannaah_Bhati iger_Shroff	Vaani_Kapoor Varun_Dhawan Rajput Vicky_Kaushal Vidya_Balan Vivek_Oberoi			
Sara_Ali_Khan So [20] %cd /content/gdrive/ /content/gdrive/My D [21] !ls wc -l # Number	nam_Kapoor U My Drive/Kaggle/bo rive/Kaggle/bollyw	ood_celeb_face	es2/Shraddha_Kapoor	<u>r</u>		
[22] %cd /content/gdrive/ /content/gdrive/My D [23] !pwd /content/gdrive/My D	rive/Kaggle/questi	on_one_dataset	:			
Run the program f		33333334				
'Shahi 'Richa		/question one	dataset"			
'Taaps 'Sunie 'Shrut 'Sidha 'Disha	ee_Pannu',#4 ll_Shetty',#5 i_Haasan',#6 rth_Malhotra',#7 _Patani',#8 _Rampal'#9					
	read("/content/gdri	ve/My Drive/Ka		e to do the learning.	forked!!!!	
<pre>label = classes.in print(label) for img in os.list imagepath = os.p # print(str(imag star_image = cv2 try: star_image = c image_array =</pre>	dex(clas) dir(path): # Gets eath.join(path,img)	0) ge,(250,250)) e).flatten()	ll files in the direct	cory		
except Exception pass print(len(data)) 0 1 2		,				
3 4 5 6 7 8 9 1198						
<pre>random.shuffle(data) X_features = [] Y_labels = [] for x,y in data: X_features.append(Y_labels.append(y) [29] from sklearn.model_s X_train_X_testV_tr</pre>	x) election import tr		: { features, Y_labels,	test size=0.1)		
<pre>[30] print("Sizes of X_tr print(len(X_train)) print(len(X_test)) print(len(Y_train)) print(len(Y_test)) Sizes of X_train, Y_ 1078</pre>	ain, Y_train, X_te	st, Y_test")		-		
120 1078 120 [31] from sklearn.svm imp [74] model = SVC(decision model.fit(X_train, Y prediction_test = mo	_function_shape=' <mark>o</mark> _train) del.predict(X_test		cbf')			
<pre>accu = model.score(X print("Testing accur Testing accuracy: 0. [75] model = SVC(decision model.fit(X_train, Y</pre>	acy:",accu) 33333333333333333333333333333333333	vo', kernel='r	cbf')			
<pre>prediction_train = m train_accu = model.s print("Training accu Training accuracy: 0 [76] # Testing Metrics</pre>	core(X_train, \(\bar{Y}\)_tr					
from sklearn.metrics print(classification p Shraddha_Kapoor Shahid_Kapoor Richa_Chadda Randeep_Hooda	recision recall 0.42 0.33 0.24 0.44 0.20 0.22 0.12 0.22	ediction_test, es=classes)) f1-score s 0.37 0.31 0.21 0.16	support 15 9 9			
Taapsee_Pannu Suniel_Shetty Shruti_Haasan Sidharth_Malhotra Disha_Patani Arjun_Rampal accuracy macro avg weighted avg /usr/local/lib/pytho	0.44 0.24 0.00 0.00 0.57 0.67 0.00 0.00 0.32 0.62 0.43 0.20 0.27 0.29 0.33 0.33	0.00 0.62 0.00 0.42 0.27 0.33 0.27	17 6 18 9 13 15 120 120 120 120	:1272: UndefinedMetricWarning: Pr	ecision and F-score are i	ll-defined and being
_warn_prf(average, [77] # Training Metrics from sklearn.metrics print(classification	modifier, msg_sta import classifica _report(Y_train, p _target_nam	rt, len(result tion_report rediction_trai es=classes))	:))			
Shahid Kapoor Richa Chadda Randeep Hooda Taapsee Pannu Suniel Shetty Shruti Haasan Sidharth Malhotra Disha Patani Arjun Rampal	0.75	0.79 0.80 0.73 0.80 0.55 0.84 0.79 0.67	136 109 106 128 66 112 91 139 87			
	<pre>import confusion_ atrix(Y_test, pred</pre>	iction_test)	1078 1078			
plt.xlabel('true lab plt.ylabel('predicte Shraddha_Kapoor 5 1 Shahid_Kapoor 2 4 Richa_Chadda 0 0	d label');	1				
Taapsee_Pannu - 1 0 Taapsee_Pannu - 1 0 Shruti_Haasan - 4 0	1 2 5 0 1 2 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 1 0				
Disha_Patani - 1 0 Arjun_Rampai - 2 2 Arjun_	true label in(Y_train)): _train[item].resha s_train+1 ppend(loss_train) in(Y_test)): _test[item].reshap	pe(1,-1))[0] =				
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Commander Comm	pool of	pe(1,-1))[0] == e(1,-1))[0] == e(1,-1))[0] == f(1,-1))[0] == a339eac8> a39eac8> a1,-1))[0] aed6ba8> ain_test_split(adea668> (1,-1))[0] forming very w adea668> (1,-1))[0] abcoso> curve curve din_test_split(accuracy din_test_split(acc	to take { 2 classes for each classes of the classes	test_size=0.1)		
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	n(Y_treain):: train(item).: reshape(1): reshape(2): reshape(2): reshape(2): reshape(2): reshape(3): reshape(3): reshape(3): reshape(3): reshape(3): reshape(3): reshape(3): reshape(4): reshape(4): reshape(4): reshape(5): reshape(4): reshape(5): reshape(4): reshape(4): reshape(4): reshape(5): reshape(1): reshape(1): reshape(1): reshape(1): reshape(2): reshape(3): reshape(4): reshape(4): reshape(4): reshape(5): reshape(1): reshape(1): reshape(1): reshape(2): reshape(1): reshape(2): reshape(1): re	pe(1,-1))[0] == e(1,-1))[0] == e(1,-1))[0] == a339eac8> -1))(0] af7f940> -1))(0] aed6ba8> -1))(0] aed6ba8> -1))(0] aed6ba8> -1))(0] aed6a68> c(1,-1))[0] aed6a68> c(1,-1))[0] aeda668> c(1,-1)[0] aeda668> c(1	d to take 2 classes for ear O.666666666666666666666666666666666666	test_size=0.1)		
	m(Y_train): "train item "train item item "train item ite	pe(1,-1))[0] == e(1,-1))[0] == e(1,-1))[0] == 339eac8> -1))[0] aed6ba8> -1))[0] aed6ba8> -1))[0] aed6ba8> -1))[0] forming very w aedea668> curacy. We nee Pannu, accuracy /question one the list of al 0) ge,(250,250)) alin_test_split(x st, Y_test*) adea668> alin_test_split(x) st, Y_test*) ast, Y_test*)	dotake 2 classes for eat to take 2 classes for eat to 4.0.66666666666666666666666666666666666	test_size=0.1)		
	m(Y_train)):	pe(1,-1);[0] = e(1,-1);[0] = e(1,-1);[0] = -1);[0] = -1);[0] = -1);[0] = -1);[0] = -1);[0] = -1);[0] = -1);[0] = curve curacy. We nee Pannu, accuracy /question one the list of al 0) ge,(250,250); -1);[0] = curve curacy. We nee Pannu, accuracy /question one the list of al 0) ge,(250,250); -1);[0] = curve curacy. We nee Pannu, accuracy /question one the list of al 0) ge,(250,250); alin_test_split(x) st, Y_test") est curve	Teat(stem): If it is in the direct At tiles in the d	test_size=0.1) h other. making total of 10 X 10 runs of		
	esting Loss (cesting Loss (pe(1,-1);[0] = e(1,-1);[0] = e(1,-1);[0] = a339eac8> -1))[0] a17:940> a17:940> a17:940> a17:940> c(1,-1);[0] a28:2390> c(1,-1);[0] a29:2390> couracy. We nee Pannu, accuracy forming very we nee Pannu, accuracy a10:2390> couracy. We nee Pannu, accuracy forming very we nee Pannu, accuracy fo	retures, Y_labels, should be compared with should be compared with should be compared.	test_size=0.1) h other. making total of 10 X 10 runs of		

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Sizes of X_train, Y_train, X_test, Y_test
28
247
28
accuracy: 0.75
_____
-----Doing for -----
Shahid_Kapoor and Sidharth_Malhotra
0
1
245
Sizes of X_train, Y_train, X_test, Y_test
220
25
220
25
accuracy: 0.56
-----Doing for -----
Shahid Kapoor and Disha Patani
0
1
297
Sizes of X_train, Y_train, X_test, Y_test
267
30
267
30
accuracy: 0.7
-----Doing for -----
Shahid_Kapoor and Arjun_Rampal
0
1
247
Sizes of X_train, Y_train, X_test, Y_test
222
25
```