```
Data shape (400, 4096)
Target Shapes (400,)
There are 40 unique persons in the dataset
Size of each image is 64x64
```

```
Confusion matrix: [[3 0 0 ... 0 0 0]
[0 1 0 ... 0 0 0]
[0 0 1 ... 0 0 0]
...
[0 0 0 ... 2 0 0]
[0 0 0 ... 0 3 0]
[1 0 0 ... 0 0 1]]
```

Out[3]: dict_keys(['data', 'images', 'target', 'DESCR'])

x train: (280, 4096) x test: (120, 4096) Naive bayes accuracy:73.33

Multinomial Naive bayes accuracy:85.83 number of missclassified images 17 Total images in test set 120 Accuracy: 85.83 %











[5 rows x 30 columns] <class 'pandas.core.frame.DataFrame'> RangeIndex: 569 entries, 0 to 568 Data columns (total 30 columns):

#	Column	Non-Null Count	Dtype					
Θ	mean radius	569 non-null	float64					
1	mean texture	569 non-null	float64					
2	mean perimeter	569 non-null	float64					
3	mean area	569 non-null	float64					
4	mean smoothness	569 non-null	float64					
5	mean compactness	569 non-null	float64					
6	mean concavity	569 non-null	float64					
7	mean concave points	569 non-null	float64					
8	mean symmetry	569 non-null	float64					
9	mean fractal dimension	569 non-null	float64					
10	radius error	569 non-null	float64					
11	texture error	569 non-null	float64					
12	perimeter error	569 non-null	float64					
13	area error	569 non-null	float64					
14	smoothness error	569 non-null	float64					
15	compactness error	569 non-null	float64					
16	concavity error	569 non-null	float64					
17	concave points error	569 non-null	float64					
18	symmetry error	569 non-null	float64					
19	fractal dimension error	569 non-null	float64					
20	worst radius	569 non-null	float64					
21	worst texture	569 non-null	float64					
22	worst perimeter	569 non-null	float64					
23	worst area	569 non-null	float64					
24	worst smoothness	569 non-null	float64					
25	worst compactness	569 non-null	float64					
26	worst concavity	569 non-null	float64					
27	worst concave points	569 non-null	float64					
28	worst symmetry	569 non-null	float64					
29	worst fractal dimension	569 non-null	float64					
dtypes: float64(30)								
memory usage: 133.5 KB								
None								
(569, 30)								

	mean	radius	mean	textu	re m	ean p	erimet	ter	mean	area	mean	smooth	ness	1	
0		17.99		10.	38		122.	.80	10	001.0		0.1	11840		
1		20.57		17.	77		132	90	13	326.0		0.0	98474		
2		19.69		21.	25		130	.00	12	203.0		0.1	10960		
3		11.42		20.			77.	.58		386.1		0.1	14250		
4		20.29		14.	34		135	.10	12	297.0		0.1	10030		
	mean	compact	ness	mean	conca	vity	mean	соп	cave	ooints	mean	symme	etry	X	
0		0.27760 0.3001						0.14710 0.2419							
1	0.07864 0.				0869			0	.07017		0.1	1812			
2	0.15990 0.					1974	0.12790 0.2069								
3		0.28390 0.2414						0	.10526		0.2	2597			
4	0.13280 0.198				1980			0	. 10436		0.1	1809			
	mean	fractal				wors	t radi	Lus	worst	t text	ure w	orst p	oerime	eter	1
0			0.0	7871	107.50		25.	.38		17	.33		184	4.60	
1			0.0	5667			24.	99		23	.41		158	8.80	
1			0.0	5999			23.	.57		25	.53		152	2.50	
3			0.0	9744			14.	91		26	.50		98	8.87	
4			0.0	5883			22.	54		16	.67		152	2.20	
	worst	t area	worst	smoot	hness	wor	st con	npac	tness	wors	t cond	avity	\		
0	- 2	2019.0		6	.1622			0	.6656		0	.7119			
		1956.0		6	.1238			0	.1866		e	.2416			
2	1	1709.0		6	.1444			e	.4245		e	.4504			
3		567.7		6	.2098			0	.8663		e	.6869			
4	-	1575.0		6	.1374			e	.2050		e	.4000			
	worst	t concav	e poi	nts w	orst	symme	try v	vors	t fra	ctal d	imensi	.on			
0			0.26	554		0.4	601				0.118	90			
1			0.18	360		0.2	750				0.089	02			
2			0.24	130		0.3	613				0.087	58			
3			0.25	575		0.6	638				0.173	00			
4			0.16	525		0.2	364				0.076	78			