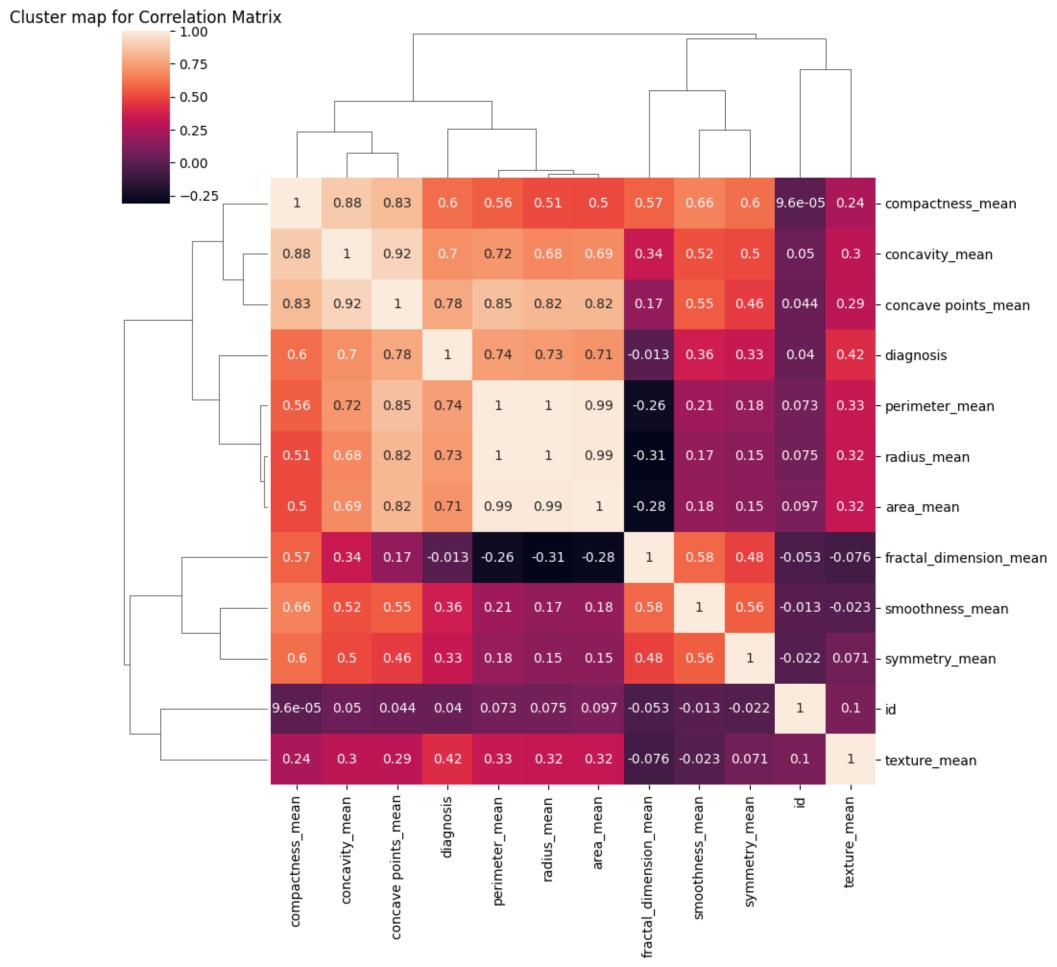
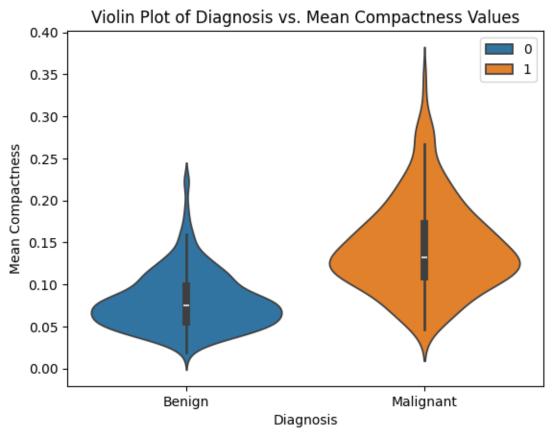
```
row information: RangeIndex(start=0, stop=569, step=1)
col information: Index(['id', 'diagnosis', 'radius_mean', 'texture_mean', 'perimeter_mean',
       'area_mean', 'smoothness_mean', 'compactness_mean', 'concavity_mean',
       'concave points_mean', 'symmetry_mean', 'fractal_dimension_mean'],
      dtype='object')
```

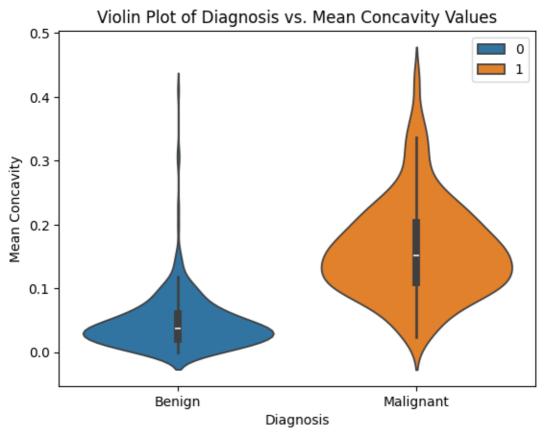
	id	diagnosis	radius_mean	texture_mean	perimeter_mean	area_mean	smoothness_mean	compactness_mean	concavity_mean	concave points_mean	symmetry_mean	fractal_dimension_mean
count	5.690000e+02	569.000000	569.000000	569.000000	569.000000	569.000000	569.000000	569.000000	569.000000	569.000000	569.000000	569.000000
mean	3.037183e+07	0.372583	14.127292	19.289649	91.969033	654.889104	0.096360	0.104341	0.088799	0.048919	0.181162	0.062798
std	1.250206e+08	0.483918	3.524049	4.301036	24.298981	351.914129	0.014064	0.052813	0.079720	0.038803	0.027414	0.007060
min	8.670000e+03	0.000000	6.981000	9.710000	43.790000	143.500000	0.052630	0.019380	0.000000	0.000000	0.106000	0.049960
25%	8.692180e+05	0.000000	11.700000	16.170000	75.170000	420.300000	0.086370	0.064920	0.029560	0.020310	0.161900	0.057700
50%	9.060240e+05	0.000000	13.370000	18.840000	86.240000	551.100000	0.095870	0.092630	0.061540	0.033500	0.179200	0.061540
75%	8.813129e+06	1.000000	15.780000	21.800000	104.100000	782.700000	0.105300	0.130400	0.130700	0.074000	0.195700	0.066120
max	9.113205e+08	1.000000	28.110000	39.280000	188.500000	2501.000000	0.163400	0.345400	0.426800	0.201200	0.304000	0.097440

Correlation Matrix

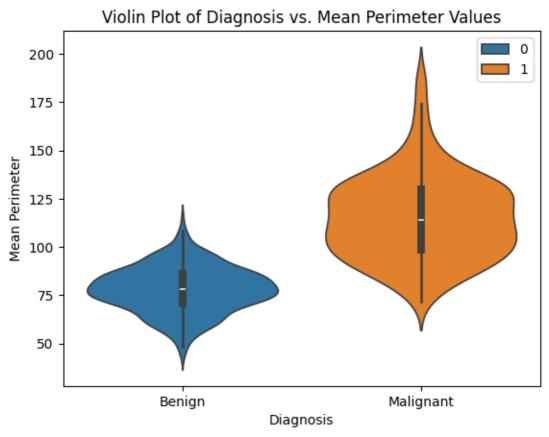
Correlation Matrix													- 1	0	
id -	- 1	0.04	0.075	0.1	0.073	0.097	-0.013	9.6e-05	0.05	0.044	-0.022	-0.053			0
diagnosis -	0.04	1	0.73	0.42	0.74	0.71	0.36	0.6	0.7	0.78	0.33	-0.013		- o	0.8
radius_mean -	0.075	0.73	1	0.32	1	0.99	0.17	0.51	0.68	0.82	0.15	-0.31			
texture_mean -	0.1	0.42	0.32	1	0.33	0.32	-0.023	0.24	0.3	0.29	0.071	-0.076		- o	0.6
perimeter_mean -	0.073	0.74	1	0.33	1	0.99	0.21	0.56	0.72	0.85	0.18	-0.26			
area_mean -	0.097	0.71	0.99	0.32	0.99	1	0.18	0.5	0.69	0.82	0.15	-0.28		- 0	0.4
smoothness_mean -	-0.013	0.36	0.17	-0.023	0.21	0.18	1	0.66	0.52	0.55	0.56	0.58			
compactness_mean -	9.6e-05	0.6	0.51	0.24	0.56	0.5	0.66	1	0.88	0.83	0.6	0.57		- C	0.2
concavity_mean -	0.05	0.7	0.68	0.3	0.72	0.69	0.52	0.88	1	0.92	0.5	0.34			
concave points_mean -	0.044	0.78	0.82	0.29	0.85	0.82	0.55	0.83	0.92	1	0.46	0.17		- 0	0.0
symmetry_mean -	-0.022	0.33	0.15	0.071	0.18	0.15	0.56	0.6	0.5	0.46	1	0.48			
fractal_dimension_mean -	-0.053	-0.013	-0.31	-0.076	-0.26	-0.28	0.58	0.57	0.34	0.17	0.48	1			-0.2
	- pi	diagnosis -	radius_mean -	texture_mean -	perimeter_mean -	area_mean -	smoothness_mean -	compactness_mean -	concavity_mean -	concave points_mean -	symmetry_mean -	actal_dimension_mean -	-		

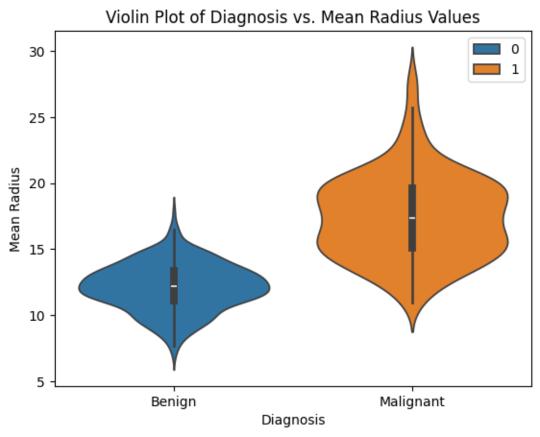


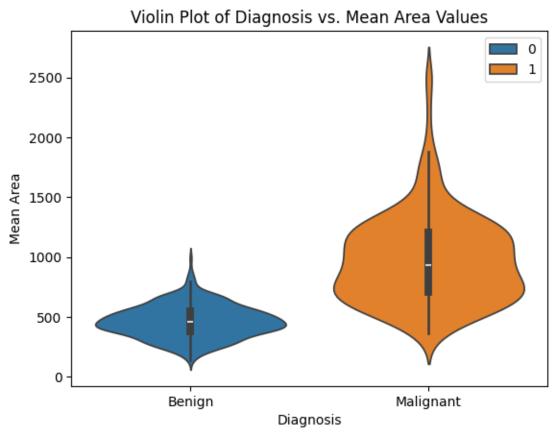


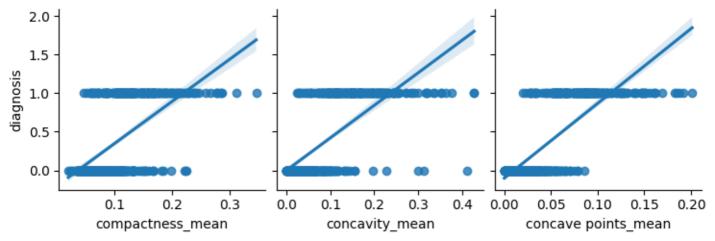


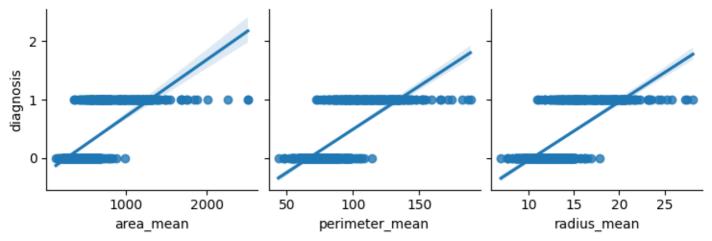
Violin Plot of Diagnosis vs. Mean Concave Points Values 0.20 -Mean Concave Points 0.15 -0.10 -0.05 -0.00 -Benign Malignant Diagnosis











```
Mean squared error: 0.08494739844208647
R-squared: 0.6383962036838009
b0 (model intercept)
                             = -1.3346645166241813
b1 (coeff for compactness)
                          = 0.4225071269807399
b2 (coeff for concavity)
                             = 0.6485696045302635
b3 (coeff for concave points)= 8.470875669627944
b4 (coeff for perimeter)
                             = -0.05294643956330038
b5 (coeff for radius)
                             = 0.4769109453062004
b6 (coeff for area)
                             = -0.0010274395335266862
```