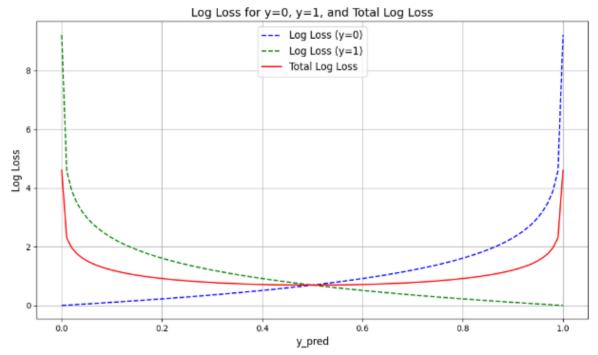
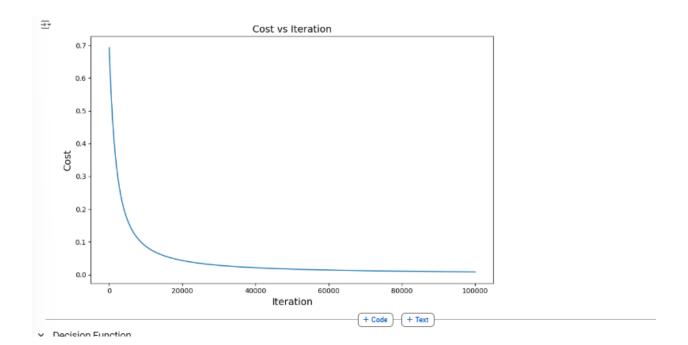


→ plot for total loss



```
Iteration 200: COSt = 0.034332
Tteration 300: Cost = 0.607704
    Iteration 400: Cost = 0.582671
    Iteration 500: Cost = 0.559128
    Iteration 600: Cost = 0.536977
    Iteration 700: Cost = 0.516126
    Iteration 800: Cost = 0.496487
    Iteration 900: Cost = 0.477978
    Iteration 1000: Cost = 0.460524
    Iteration 1100: Cost = 0.444052
    Iteration 1200: Cost = 0.428497
    Iteration 1300: Cost = 0.413797
    Iteration 1400: Cost = 0.399895
    Iteration 1500: Cost = 0.386736
    Iteration 1600: Cost = 0.374272
    Iteration 1700: Cost = 0.362457
    Iteration 1800: Cost = 0.351248
    Iteration 1900: Cost = 0.340607
    Iteration 2000: Cost = 0.330495
    Iteration 2100: Cost = 0.320880
    Iteration 2200: Cost = 0.311730
    Iteration 2300: Cost = 0.303016
    Iteration 2400: Cost = 0.294710
    Iteration 2500: Cost = 0.286789
    Iteration 2600: Cost = 0.279228
    Iteration 2700: Cost = 0.272007
    Iteration 2800: Cost = 0.265104
    Iteration 2900: Cost = 0.258502
    Iteration 3000: Cost = 0.252182
    Iteration 3100: Cost = 0.246129
    Iteration 3200: Cost = 0.240328
    Iteration 3300: Cost = 0.234764
    Iteration 3400: Cost = 0.229425
    Iteration 3500: Cost = 0.224299
    Iteration 3600: Cost = 0.219373
    Iteration 3700: Cost = 0.214637
    Iteration 3800: Cost = 0.210081
    Iteration 3900: Cost = 0.205697
    Iteration 4000: Cost = 0.201474
    Iteration 4100: Cost = 0.197406
```



₹		Pregnancies	Glucose	BloodPressure	SkinThickness	Insulin	BMI	DiabetesPedigreeFunction	Age	Outcome	E
	count	768.000000	768.000000	768.000000	768.000000	768.000000	768.000000	768.000000	768.000000	768.000000	ıl
	mean	3.845052	121.656250	72.386719	29.108073	140.671875	32.455208	0.471876	33.240885	0.348958	
	std	3.369578	30.438288	12.096642	8.791221	86.383060	6.875177	0.331329	11.760232	0.476951	
	min	0.000000	44.000000	24.000000	7.000000	14.000000	18.200000	0.078000	21.000000	0.000000	
	25%	1.000000	99.750000	64.000000	25.000000	121.500000	27.500000	0.243750	24.000000	0.000000	
	50%	3.000000	117.000000	72.000000	29.000000	125.000000	32.300000	0.372500	29.000000	0.000000	
	75%	6.000000	140.250000	80.000000	32.000000	127.250000	38.600000	0.626250	41.000000	1.000000	
	max	17.000000	199.000000	122.000000	99.000000	846.000000	67.100000	2.420000	81.000000	1.000000	

v Train Test Split and Standard Scaling of the Dataset:

