

# OUTPUT SCREEN WITH THE PREDICTION (NODE-RED WEB APPS)

Home

Breast cancer risk prediction

prediction [0.9355870485305786,0.06441298127174377]

mean\_radius \*  
12

mean\_texture \*  
23

mean\_perimeter \*  
12

mean\_area \*  
12

mean\_smoothness \*  
1

SUBMIT

CANCEL

# OUTPUT SCREEN OF THE MODEL’S WEB APP USING NODE-RED

Home

Breast cancer risk prediction

text

mean\_radius \*

mean\_texture \*

mean\_perimeter \*

mean\_area \*

mean\_smoothness \*

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mean\_radius \*

mean\_texture \*

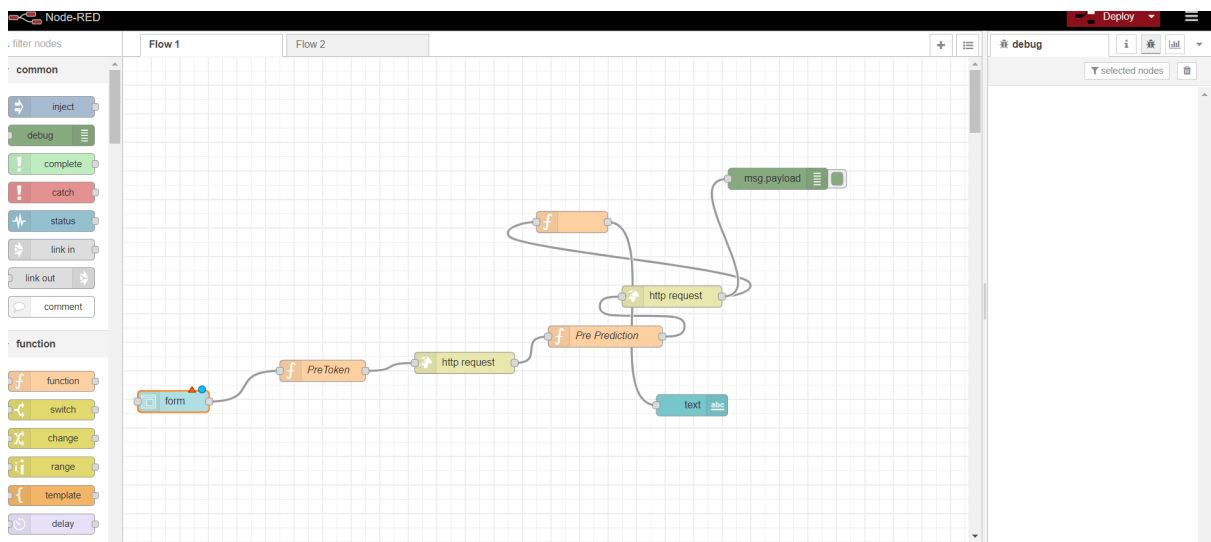
mean\_perimeter \*

mean\_area \*

mean\_smoothness \*

SUBMIT

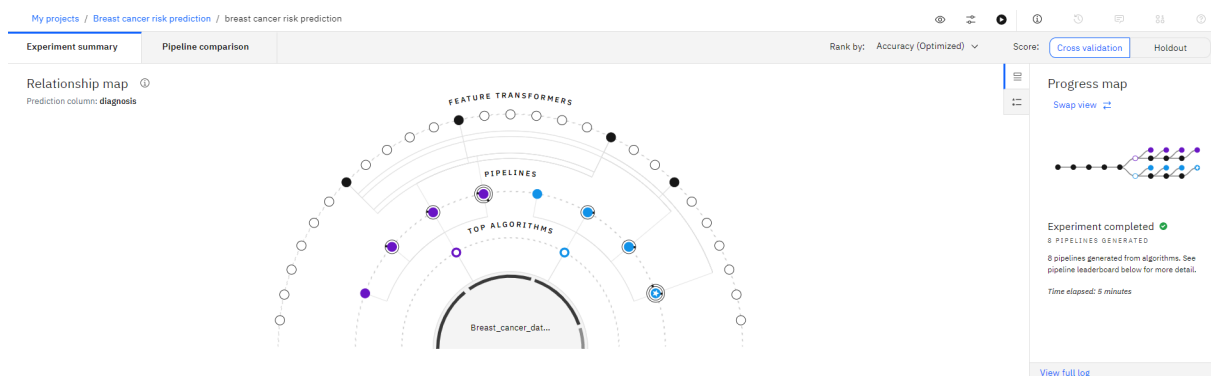
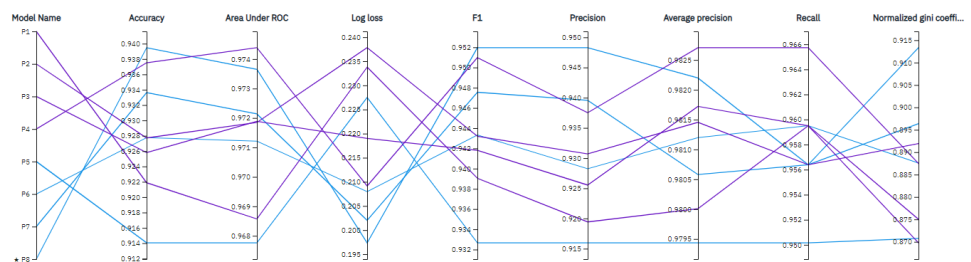
CANCEL



ABOVE IS THE PICTORIAL REPRESENTATION OF HOW THE NODES WERE ARRANGE TO MAKE WEB APP USING NODE-RED

BELOW THREE IMAGES ARE OF THE DATASET WHEN RUN USING AutoAI EXPERIMENT ,In IBM Watson

Metric chart   
Prediction column: **diagnosis**



Pipeline leaderboard

	Rank	↑	Name	Algorithm	Accuracy (Optimized)	Enhancements	Build time
>	★ 1		Pipeline 8	XGB Classifier	0.939	HPO-1 FE HPO-3	00:01:05
>	2		Pipeline 4	Gradient Boosting Classifier	0.938	HPO-1 FE HPO-2	00:00:12
>	3		Pipeline 7	XGB Classifier	0.934	HPO-1 FE	00:01:05
>	4		Pipeline 6	XGB Classifier	0.928	HPO-1	00:00:16
>	5		Pipeline 2	Gradient Boosting Classifier	0.928	HPO-1	00:00:06
>	6		Pipeline 3	Gradient Boosting Classifier	0.926	HPO-1 FE	00:00:43
>	7		Pipeline 1	Gradient Boosting Classifier	0.922	None	00:00:01
>	8		Pipeline 5	XGB Classifier	0.914	None	00:00:01

BELOW IS THE PREDICTION BY 4 KINDS OF MODEL ON THE SAME DATASET.(THIS IS THE RESULT OF SOURCE CODE)

```
[0]Logistic regression training accuracy 0.8923076923076924
[1]Decision Tress classification training accuracy 1.0
[2]KNN training accuracy 0.9252747252747253
[3]Naive - Bayes training accuracy 0.8835164835164835
```

BELOW IS THE PREDICTION OF THE MODEL ON THE TEST DATASET.MODEL 0,1,2,3 REPRESENTS LOGISTIC REGRESSION ,DECISION TREES ,KNN AND NAÏVE-BAYES

```
model: 0
[[40  7]
 [ 4 63]]
testing accuracies = 0.9035087719298246
model: 1
[[40  7]
 [11 56]]
testing accuracies = 0.8421052631578947
model: 2
[[38  9]
 [ 5 62]]
testing accuracies = 0.8771929824561403
model: 3
[[41  6]
 [ 2 65]]
testing accuracies = 0.9298245614035088
```





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