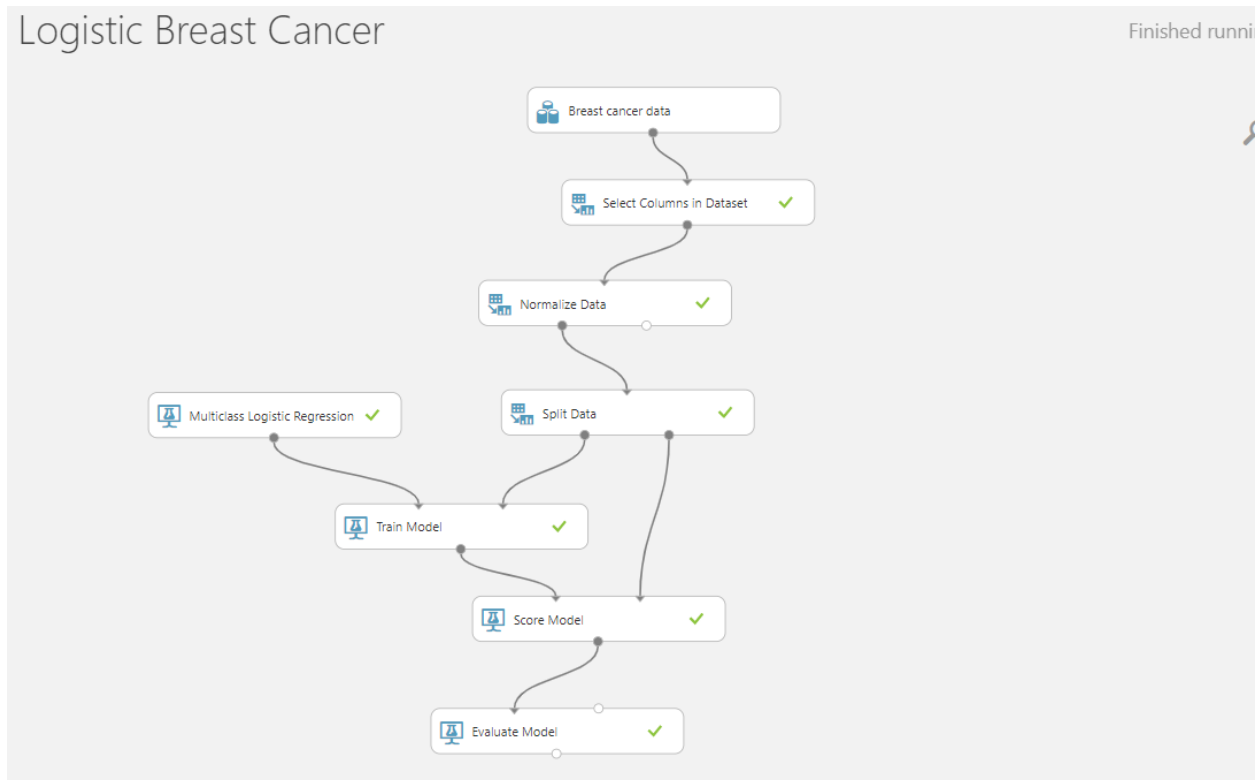


ASSIGNMENT Day 3 FDP

❖ Logistic Model for breast cancer

Model Architecture





Dataset Column Select

Logistic Breast Cancer > Select Columns in Dataset > Results dataset

rows
683

columns
4

view as	Class	age	tumor-size	breast
	0	5	1	3
	0	5	4	3
	0	3	1	3
	0	6	8	3
	0	4	1	3
	1	8	10	9
	0	1	1	3
	0	2	2	3
	0	2	1	1
	0	4	1	2
	0	1	1	3

Statistics

Visualizations

To view, select a column in the table.



Training Model

Logistic Breast Cancer > Multiclass Logistic Regression > Untrained model

Multiclass Logistic Regression Classifier

Settings

Setting	Value
Optimization Tolerance	1E-07
L1 Weight	1
L2 Weight	1
Memory Size	20
Quiet	True
Use Threads	True
Allow Unknown Levels	True
Random Number Seed	



Trained Model

Logistic Breast Cancer > Train Model > Trained model

setting	value
Optimization Tolerance	1E-07
L1 Weight	1
L2 Weight	1
Memory Size	20
Quiet	True
Use Threads	True
Allow Unknown Levels	True
Random Number Seed	

Feature Weights

Feature	-0.733681326113927	1.36298957654637
tumor-size	-2.60995	2.60995
Bias	2.25417	-2.25416
breast	-1.81493	1.81493
age	-1.79396	1.79396



Scored dataset

Logistic Breast Cancer > Score Model > Scored dataset

rows
341

columns
7

	Class	age	tumor-size	breast	Scored Probabilities for Class "-0.733681326113927"	Scored Probabilities for Class "1.36298957654637"	Scored Labels
view as							
	1.36299	1.971775	2.271896	0.635199	0.002697	0.997303	1.36299
	1.36299	0.907453	0.932487	1.452225	0.039035	0.960965	1.36299
	-0.733681	-1.221191	-0.741774	-0.181827	0.975913	0.024087	-0.7336
	1.36299	1.971775	2.271896	2.677764	0.00036	0.99964	1.36299
	-0.733681	-0.156869	-0.741774	-0.181827	0.924542	0.075458	-0.7336
	-0.733681	-0.866417	-0.741774	-0.181827	0.964533	0.035467	-0.7336
	-0.733681	-1.221191	-0.741774	-0.59034	0.983778	0.016222	-0.7336
	-0.733681	-0.511643	-0.741774	-0.59034	0.964692	0.035308	-0.7336
	1.36299	0.552679	2.271896	1.452225	0.005912	0.994088	1.36299
	1.36299	0.552679	1.26734	1.860738	0.022137	0.977863	1.36299

Statistics

Visualization



Evaluate (Result)

Logistic Breast Cancer > Evaluate Model > Evaluation results

Metrics

Overall accuracy	0.953079
Average accuracy	0.953079
Micro-averaged precision	0.953079
Macro-averaged precision	0.949996
Micro-averaged recall	0.953079
Macro-averaged recall	0.946419



Confusion Matrix

Logistic Breast Cancer > Evaluate Model > Evaluation results

Macro-averaged recall

0.946419

Confusion Matrix

