

Screen 1: Full Model

Assignment 3: Sankar Chandrahas (U60017878)

Finished running selected items ✓

Properties Project

Experiment Properties

START TIME 11/13/2...

END TIME 11/13/2...

STATUS CODE Finished

STATUS DETAILS None

Prior Run

Summary

Enter a few sentences describing your experiment (up to 140 characters).

Description

Enter the detailed description for your experiment.

Quick Help



Search experiment items



Saved Datasets

Samples

Adult Census Income...

Airport Codes Dataset

Automobile price dat...

Bike Rental UCI dataset

Bill Gates RGB Image

Blood donation data

Book Reviews from A...

Breast cancer data

Breast Cancer Features

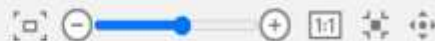
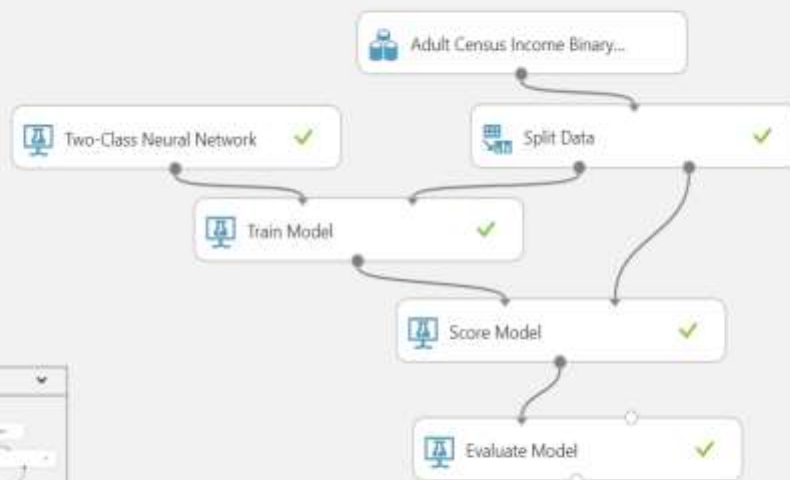
Breast Cancer Info

CRM Appetency Labe...

CRM Churn Labels Sh...

CRM Dataset Shared

CRM Upselling Label...



NEW



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SAVE AS



DISCARD CHANGES



RUN



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Screen 2: Split Data

Assignment 3, Sankar Chandrabhas (U60017878)

In draft

Draft saved at 10:12 AM

Search experiment items

Saved Datasets

Samples

- Adult Census Income...
- Airport Codes Dataset
- Automobile price dat...
- Bike Rental UCI dataset
- Bill Gates RGB Image
- Blood donation data
- Book Reviews from A...
- Breast cancer data
- Breast Cancer Features
- Breast Cancer Info
- CRM Appetency Labe...
- CRM Churn Labels Sh...
- CRM Dataset Shared
- CRM Upselling Label...

Two-Class Neural Network

Adult Census Income Binary...

Split Data

1

2

Mini Map



Properties Project

Split Data

Splitting mode

Split Rows

Fraction of rows in the ...

0.8

☒ Randomized split

Random seed

60017878

Stratified split

False

START TIME 11/8/20...

END TIME 11/8/20...

ELAPSED TIME 0:00:00.0...

STATUS CODE Finished

STATUS DETAILS Task
output
was

Quick Help

Split the rows of a dataset into two distinct sets
(more help...)



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Screen 3: Algorithm

Assignment 3. Sankar Chandrabas (U60017878)

In draft

Draft saved at 1:02:12 AM

Search experiment items

Saved Datasets

Samples

Adult Census Income...

Airport Codes Dataset

Automobile price dat...

Bike Rental UCI dataset

Bill Gates RGB Image

Blood donation data

Book Reviews from A...

Breast cancer data

Breast Cancer Features

Breast Cancer Info

CRM Appetency Labe...

CRM Churn Labels Sh...

CRM Dataset Shared

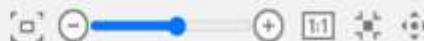
CRM Upselling Label...

Two-Class Neural Network

Adult Census Income Binary...

Split Data

Mini Map



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DISCARD CHANGES



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Properties Project

The initial learning wei...

0.1

The momentum

0

The type of normalizer

Min-Max normalizer

☒ Shuffle examples

Random number seed

60017878

☒ Allow unknown cat...

START TIME 11/13/2...

END TIME 11/13/2...

ELAPSED TIME 0:00:01.8...

STATUS CODE Finished

STATUS DETAILS None

[View output log](#)

Quick Help

Creates a binary classifier using a neural network algorithm (more help...)

Screen 4: Trained model

Assignment 3: Sankar Chandras (U60017878)

In draft

Draft saved at 12:58:34 AM

Properties Project

Train Model

Label column

Selected columns:

Column names: income

Launch column selector

START TIME 11/13/2021...

END TIME 11/13/2021...

ELAPSED TIME 0:00:17.172

STATUS CODE Finished

STATUS DETAILS None

[View output log](#)

Quick Help

Train a previously created classification or regression model
([more help...](#))

Search experiment items

Saved Datasets

Samples

Adult Census Income...

Airport Codes Dataset

Automobile price dat...

Bike Rental UCI dataset

Bill Gates RGB Image

Blood donation data

Book Reviews from A...

Breast cancer data

Breast Cancer Features

Breast Cancer Info

CRM Appetency Labe...

CRM Churn Labels Sh...

CRM Dataset Shared

CRM Upselling Label...



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Screen 5: Visualization of Trained Model



Assignment 3: Sankar Chandradas (U60017878)

Finished training selected items ✓

Properties

Project

Assignment 3: Sankar Chandradas (U60017878) > Train Model > Trained model

Setting	Value
Is Initialized From String	False
Is Classification	True
Initial Weights Diameter	0.1
Learning Rate	0.1
Loss Function	CrossEntropy
Momentum	0
Neural Network Definition	
Data Normalizer Type	MinMax
Number Of Input Features	115
Number Of Hidden Nodes	System.Collections.Generic.List<1[System.Int32]>
Number Of Iterations	100
Number Of Output Classes	2
Shuffle	True
Allow Unknown Levels	True
Random Number Seed	60017878



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SAVE AS



DISCARD CHANGES



RUN



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Screen 6: ROC Curve

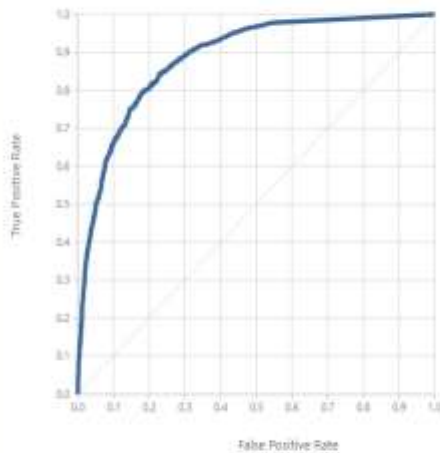
Assignment 3. Sankar Chandrasekhar (U60017878)

Trained Learning Object: **Model**

Properties Project

Assignment 3. Sankar Chandrasekhar (U60017878) > Evaluate Model > Evaluation results

ROC PRECISION/RECALL LIFT



Scored dataset



True Positive	False Negative	Accuracy	Precision	Threshold	AUC
988	506	0.840	0.683	0.5	0.888
True Positive	True Negative	Recall	F1 Score		
458	4080	0.661	0.672		
Positive Label	Negative Label				
> 50K	<= 50K				

Screen 7: Confusion Matrix

Assignment 3. Sankar Chandras (U60017878)

Finished running selected items ✓

Properties

Project

Assignment 3. Sankar Chandras (U60017878) > Evaluate Model > Evaluation results

True Positive	False Negative	Accuracy	Precision	Threshold	AUC
988	506	0.840	0.683	0.5	0.888
False Positive	True Negative	Recall	F1 Score		
458	4080	0.661	0.672		
Positive Label	Negative Label				
>50K	<=50K				

Score Bin	Positive Examples	Negative Examples	Fraction Above Threshold	Accuracy	F1 Score	Precision	Recall	Negative Precision	Negative Recall	Cumulative AUC
(0.900,1.000]	296	51	0.058	0.793	0.322	0.853	0.198	0.789	0.989	0.001
(0.800,0.900]	222	52	0.103	0.821	0.490	0.834	0.347	0.820	0.977	0.005
(0.700,0.800]	155	86	0.143	0.833	0.571	0.781	0.450	0.841	0.958	0.012
(0.600,0.700]	169	118	0.190	0.841	0.637	0.733	0.564	0.866	0.932	0.025
(0.500,0.600]	146	151	0.240	0.840	0.672	0.683	0.661	0.890	0.899	0.046
(0.400,0.500]	89	160	0.281	0.828	0.675	0.635	0.721	0.904	0.864	0.070
(0.300,0.400]	86	156	0.321	0.817	0.678	0.600	0.778	0.919	0.829	0.096
(0.200,0.300]	68	228	0.370	0.790	0.661	0.551	0.824	0.931	0.779	0.137
(0.100,0.200]	79	266	0.427	0.759	0.643	0.508	0.877	0.947	0.721	0.187
(0.000,0.100]	184	3270	1.000	0.248	0.397	0.248	1.000	1.000	0.000	0.888

Click to Upsetting Label...



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SAVE ALL



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