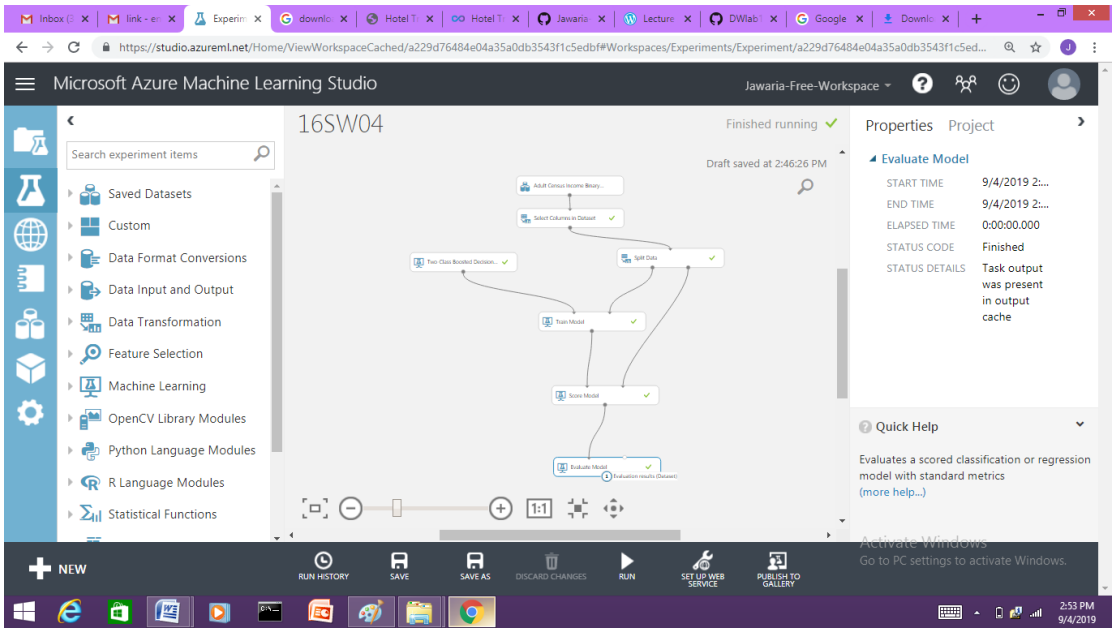
**Department of Software Engineering**
**Mehran University of Engineering and Technology, Jamshoro**

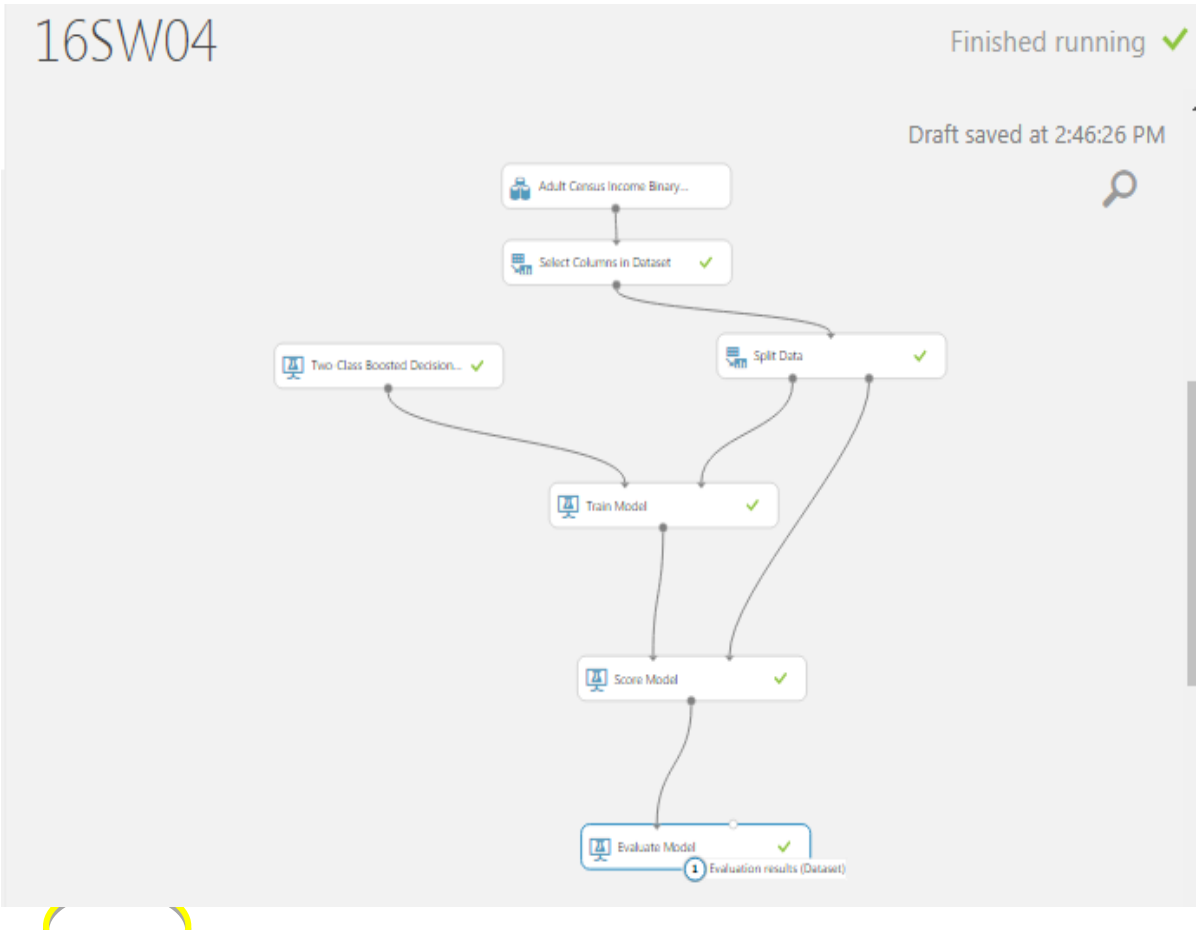
| Course: SWE324 - Data Warehousing and Data Mining | | | |
|---|---|---|---|
| **Instructor** | Rabeea Jaffari | **Practical/Lab No.** | 11 |
| **Date** | 15-08- 2018 | **CLOs** | |
| **Signature** | | **Assessment Score** | 1 Marks |

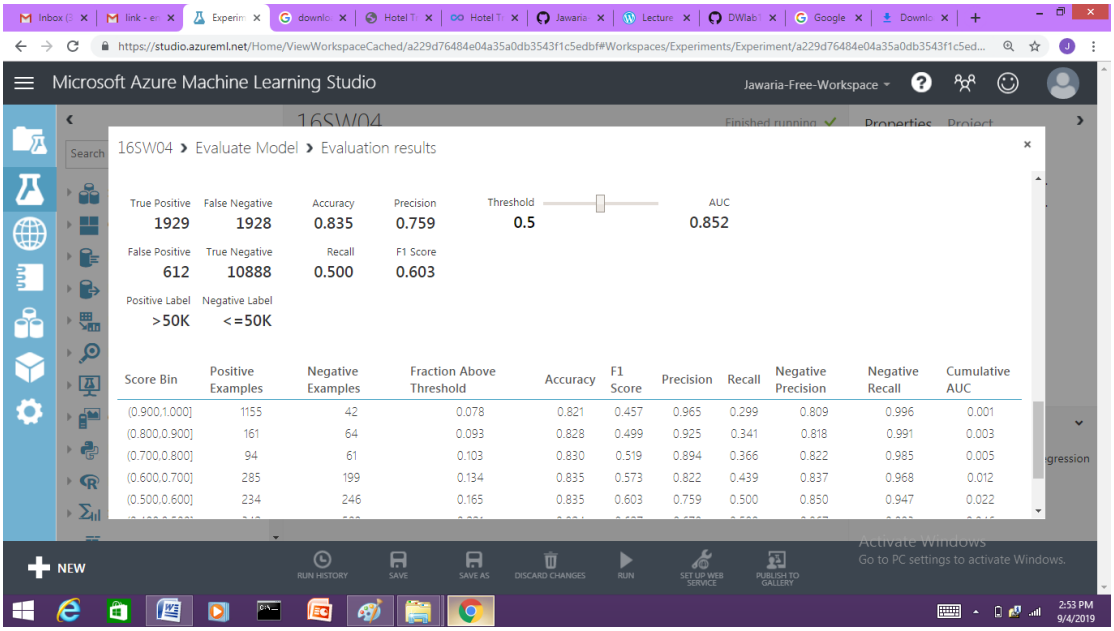
| Topic | Data mining technique: association rule analysis |
|---|---|
| **Objectives** | - To learn and implement various classification machine learning algorithms with Azure<br>- To evaluate the results of classification algorithm |

## Lab Discussion: Theoretical concepts and Procedural steps

**Task # 01**




16SW04
Finished running
Draft saved at 2:46:26 PM
Adult Census Income Binary...
Select Columns in Dataset
Two-Class Boosted Decision...
Split Data
Train Model
Score Model
Evaluate Model
1 Evaluation results (Dataset)


Microsoft Azure Machine Learning Studio
Jawaria-Free-Workspace
16SW04 › Evaluate Model › Evaluation results
True Positive 1929
False Negative 1928
Accuracy 0.835
Precision 0.759
Threshold 0.5
AUC 0.852
False Positive 612
True Negative 10888
Recall 0.500
F1 Score 0.603
Positive Label >50K
Negative Label <=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] | 1155 | 42 | 0.078 | 0.821 | 0.457 | 0.965 | 0.299 | 0.809 | 0.996 | 0.001
(0.800,0.900] | 161 | 64 | 0.093 | 0.828 | 0.499 | 0.925 | 0.341 | 0.818 | 0.991 | 0.003
(0.700,0.800] | 94 | 61 | 0.103 | 0.830 | 0.519 | 0.894 | 0.366 | 0.822 | 0.985 | 0.005
(0.600,0.700] | 285 | 199 | 0.134 | 0.835 | 0.573 | 0.822 | 0.439 | 0.837 | 0.968 | 0.012
(0.500,0.600] | 234 | 246 | 0.165 | 0.835 | 0.603 | 0.759 | 0.500 | 0.850 | 0.947 | 0.022
NEW
RUN HISTORY
SAVE
SAVE AS
DISCARD CHANGES
RUN
SET UP WEB SERVICE
PUBLISH TO GALLERY
Activate Windows
Go to PC settings to activate Windows.
2:53 PM
9/4/2019