

Detailed Instructions to deploy

Data Visualization projects showing how Oracle DV Machine learning can be used to predict Employee Attrition likelihood using Train Binary-Classification ML node in dataflows. This package contains two .dva projects:

- 1) **Naive Bayes Train-Attrition+Analysis.dva**: This project imports dataflow that trains a model which can predict Attrition likelihood. Name of the dataflow is: **Naive Bayes - Attrition Training** and it can be found in Data Flows tab in Data section. Name of the model is: **Naive Bayes - Attrition Train Model** and it can be found in Models tab in Machine Learning. Attrition has 2 distinct values (Yes,No). Since a given record can be classified into any of these 2 categories we will use Binary-classification. Along with the dataflow this project should import Training data and related datasets (datasets generated by Oracle DV while creating the model).
- 2) **Naive Bayes Apply-Attrition+Analysis.dva**: This project imports two artifacts:
 - a) Dataflow that applies the model created by Train model dataflow. Name of the dataflow is: **Naive Bayes Apply Model - Attrition Prediction**. This dataflow also imports the dataset on which we are performing prediction.
 - b) VA project created using the output dataset (**Attrition Predicted Data**) generated by the model. Output contains Predicted Value, Prediction confidence along with the input columns.

To deploy this example, please import the above two .dva projects. **Password** to open the project files is **Admin123**. To tune the model for better results you may edit the parameters section of Train Binary-classification node in **Naive Bayes - Attrition Training** dataflow.

Pre-requisite: To deploy this example, please Install DVML. OAC has DVML installed by default. To install DVML in DV Desktop(Windows/Mac) please run install_dvml* file.