

Detailed Instructions to deploy

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

- 1) **Heart disease likelihood Training – CART.dva**: This project imports dataflow that trains a model which can predict heart disease likelihood. Name of the dataflow is: **CART Heart Disease Training** and it can be found in Data Flows tab in Data section. Name of the model is: **Heart disease likelihood Training - CART** and it can be found in Models tab in Machine Learning. Heart disease likelihood has 5 distinct values (Absent, Less likely, Likely, Highly Likely, Present). Since a given record can be classified into any of these 5 categories we will use Multi-classification. Along with the dataflow this project should import Training data and related datasets (datasets generated by Oracle DV while creating the model).
- 2) **CART Apply-Heart Disease Likelihood.dva**: This project imports two artifacts:
 - a) Dataflow that applies the model created by Train model dataflow. Name of the dataflow is: **Heart Disease Likelihood Prediction**. This dataflow also imports the dataset on which we are performing prediction.
 - b) VA project created using the output dataset 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 Multi-classification node in **CART Heart Disease 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.