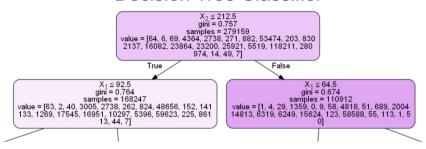
Machine Learning Model Data Forecasting

A Typical Flow Forecast

Decision Tree Classifier



Forecast Predictor:

- 1. Calculates DRP (Distributions Requirement Planning)
- Derives shipping condition and equipment needed to ship to sales

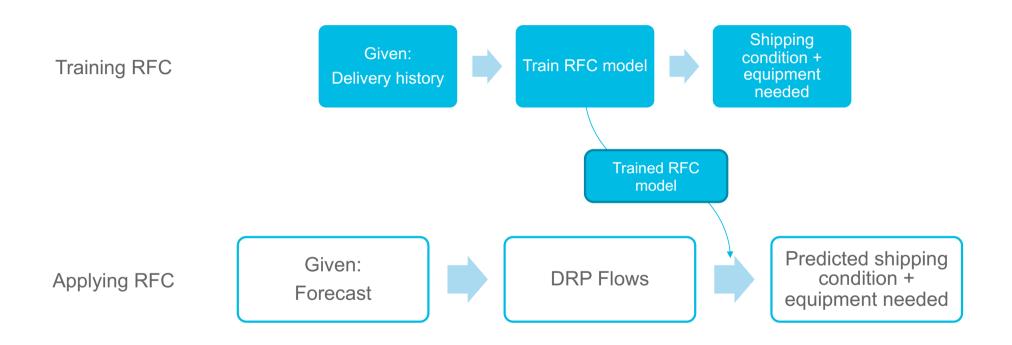
KPT (Make)Ship From: KPTShip To: HOU

+ Ship From: HOU - Ship To: ROM



BUC (Sales)

Predicting using a Flow Forecast



Equipment Forecasting

- BAxTR Basic ApproXimator for Transportation Resources
- Used delivery history data to train machine learning models
 - Out of 3 approaches, highest accuracy is 95% by using Random Forest Classifier

```
dump(rfc low lvl, 'rfc low lvl final.joblib')
      dump(dtc low lvl, 'dtc low lvl final.joblib')
       dump(ml.le y scnd, 'ShipCond encoder.joblib')
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
C:\Repos\BAxTR>C:/Users/U778411/AppData/Local/Programs/Pvthon/Pvthon37/pvthon.exe c:/Repos/BAxTR/baxtr predictive main.pv
C:\Users\U778411\AppData\Local\Programs\Python\Python37\lib\site-packages\sklearn\externals\six.py:31: DeprecationWarning:
e official version of six (https://pypi.org/project/six/).
  "(https://pypi.org/project/six/).", DeprecationWarning)
C:\Users\U778411\AppData\Local\Programs\Python\Python37\lib\site-packages\sklearn\ensemble\forest.py:245: FutureWarning: T
  "10 in version 0.20 to 100 in 0.22.", FutureWarning)
Accuracy for RFC: 95.58 %
Accuracy for DTC: 95.57 %
C:\Users\U778411\AppData\Local\Programs\Pvthon\Pvthon37\lib\site-packages\sklearn\ensemble\forest.pv:245: FutureWarning: Tl
  "10 in version 0.20 to 100 in 0.22.", FutureWarning)
Accuracy for RFC: 87.48 %
Accuracy for DTC: 87.48 %
C:\Users\U778411\AppData\Local\Programs\Python\Python37\lib\site-packages\sklearn\ensemble\forest.py:245: FutureWarning: T
  "10 in version 0.20 to 100 in 0.22.", FutureWarning)
Accuracy for RFC: 88.51 %
Accuracy for DTC: 88.52 %
C:\Repos\BAxTRx
    ♠ Python 3.7.3 64-bit IT Planning 10.0 10 = ¥£0 4 € 20 A
```

Other notable term Projects

- Learning SQL for querying data
- Machine learning in Python
- Service-oriented IT

