Prediction of delay to minimize air cargo transport risk

01 Data Collection

Real time data from Cargo 2000- the bUsiness process of a freight forwarding company
The amount of data is often a crucial Factor governing the accuracy

02 Data Cleaning

- Pre-Processing the Data.
- Handling Missing values
- Removing Outliers
- Getting a subset of clean and structured data

03 Feature Engineering

- Understanding Data
- Extracting most dominant features responsible for delay
- Extracting Features:
- Random Forest

04 Algorithms

- Decision Trees
- Random Forest
- XgBoost (Extreme Gradient Boosting)
- CatBoost (Categorical Boosting)
- Artificial Neural Networks (ANN)
- Ensemble Learning using Bagging and Stacking

05 Results and Recommendations

- Visualize the prediction
- Planning
- Business Process Monitoring
- Inventory Management
- Capacity Planning
- Servicing Schedule