Elaine da Silva
W0445885
Applied Data Analytics

Stocks API
tidyquant

request data

send data

0
stocks price
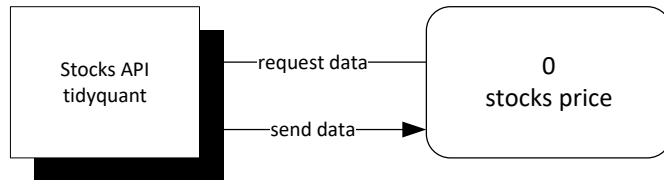
Automation with SQL Server Agent (JOB) -> Daily

JOB 1: Data import using R and Job Agent

Stocks API
tidyquant

send data   request data

Insert trigger to update stock sector

1
Gather data

D1
stock

2
Insert DB
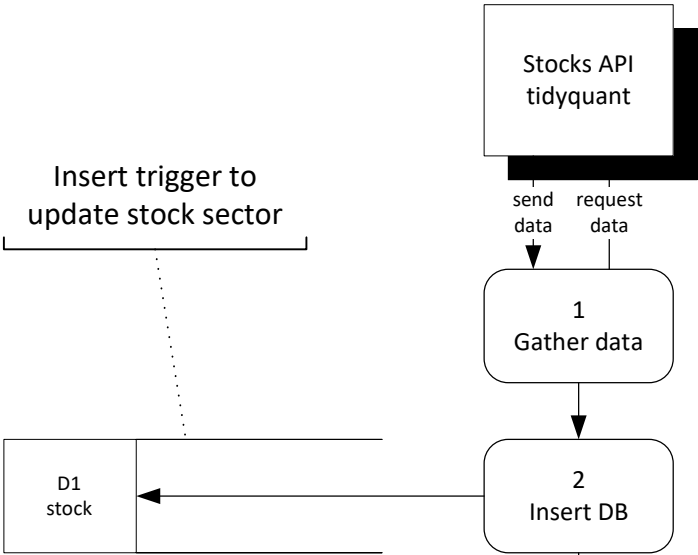
JOB 2: Update stocks features using R and Job Agent

D2
Stock_features

3
Update Features

JOB 3: Reuse XGBoost model for new predictions using R and Job Agent

D3
model_metrics

4
Predict new price

D1
stock

Model.RDS

New data predictions

metrics
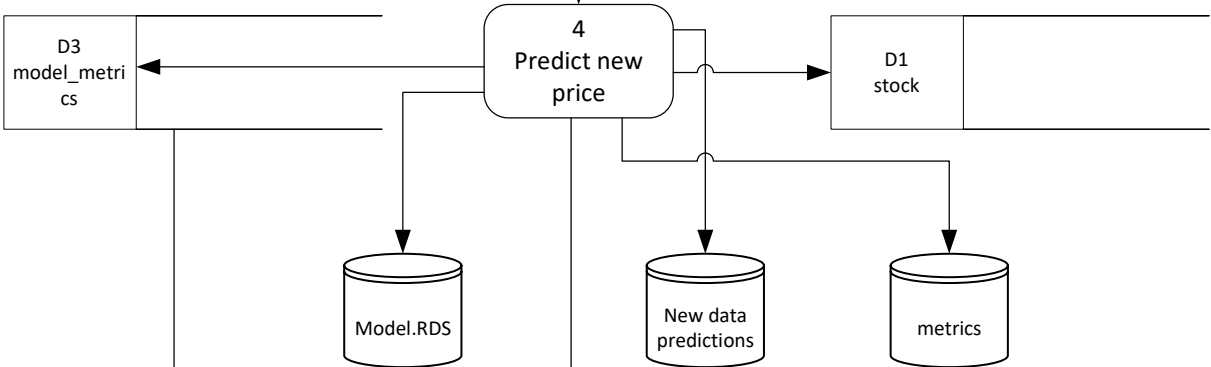
Visualization using Power BI and R

5
Generate reports

Stackeholders