Fuel BigData

Solution - IPTV & APi - Anomaly Detection

Fuel
BigData

Solution - Data Source Agnostic

Fuel BigData

Abnormal Pattern Detection, what is it? It is a detection of patterns of data that deviate from your other normal data patterns. It can be used to help understand causes of failures, abnormal patterns and to detect unfrequent usage patterns typical of fraud.

How can it be used over a Video Delivery Service? Analysing logs of Web Api, STBs or 3rd party providers can help detect abnormal patterns in use cases like; content distribution, network anomalies, CDN and cloud infrastructure anomalies. This type of service can help you reduce your spend over CDN network buffering, CDN rotation and help you to identify intrusion or fraud.

Fuel BigData

Abnormal Detection - Requirements

- Bring your trustable source dataset

- Bring the same data source for all use case analysis, conform to data consistency

- Requires a numerical distributions on the data. Quantitative analytics drives better quality analytics

- If numerical distributions are not present, it can be built (convert api log to NGram)

- Process : Static Analysis -> Build Pipeline

- Analysis starts in one subset of the data

- When subset analysis are stable, expand iteratively up to built a 1st data pipeline

- Pipeline when robust and quality checked with A/B test, can be used to trigger abnormal pattern detections, and alert 3rd party systems

Fuel BigData

From :

- Static Analysis

To :

- Pipeline Deployment

- Evaluation process of data relations and variable core distributions

- Creation of 1 first demo static analysis over one dataset

- Implement H2O.ai AutoML pipeline

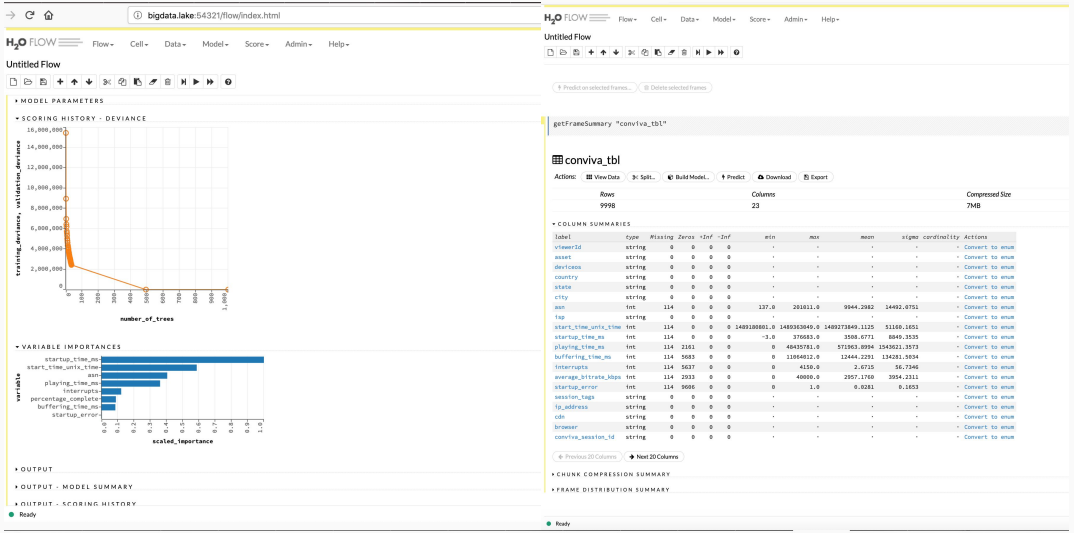
- Build/Stabilise one data pipeline

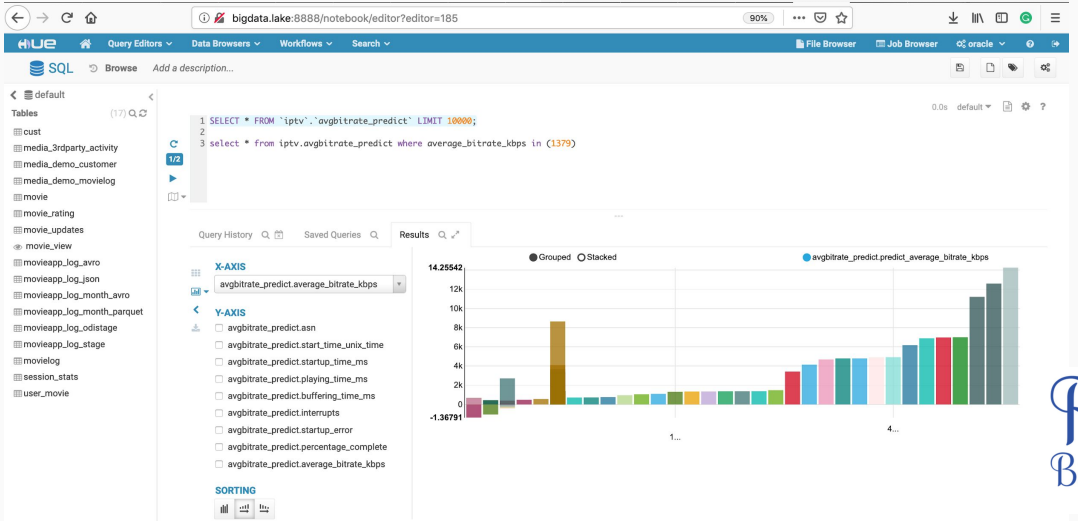
- Expand with more pipelines

- Validate results with A/B testing

- Implement 3rd party notification

- Deploy to production systems



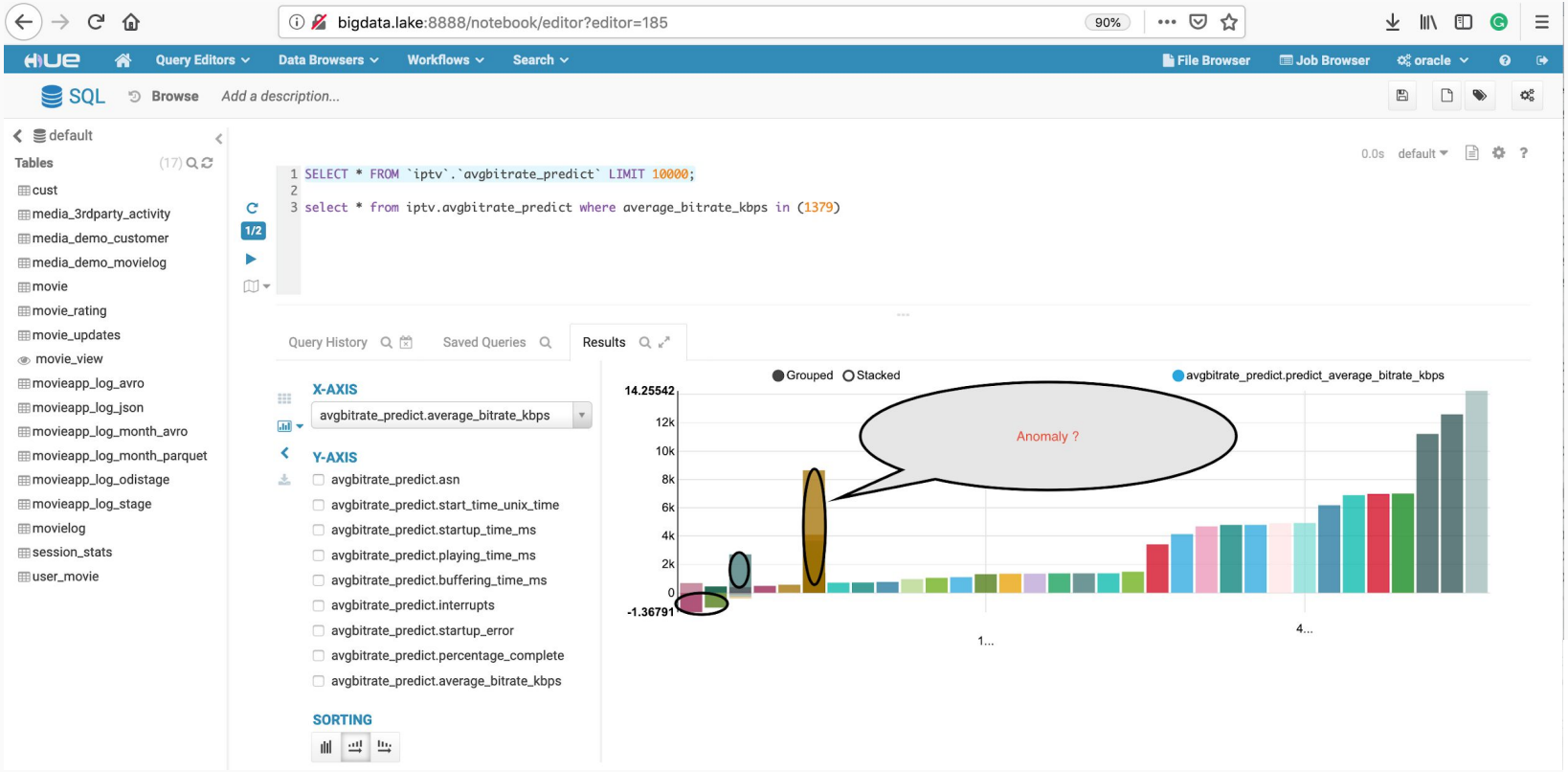


Fuel BigData

Follow our FAaS

Framework-As-a-Service

Find your Anomalies



Fuel BigData

99.99%

Confidence in your model prediction results

With trustable algorithms applied, covering more than 95% of the use cases in a pipeline, you can have up to 99.99% confidence in our results

Fuel BigData

Thank You !

Contact us

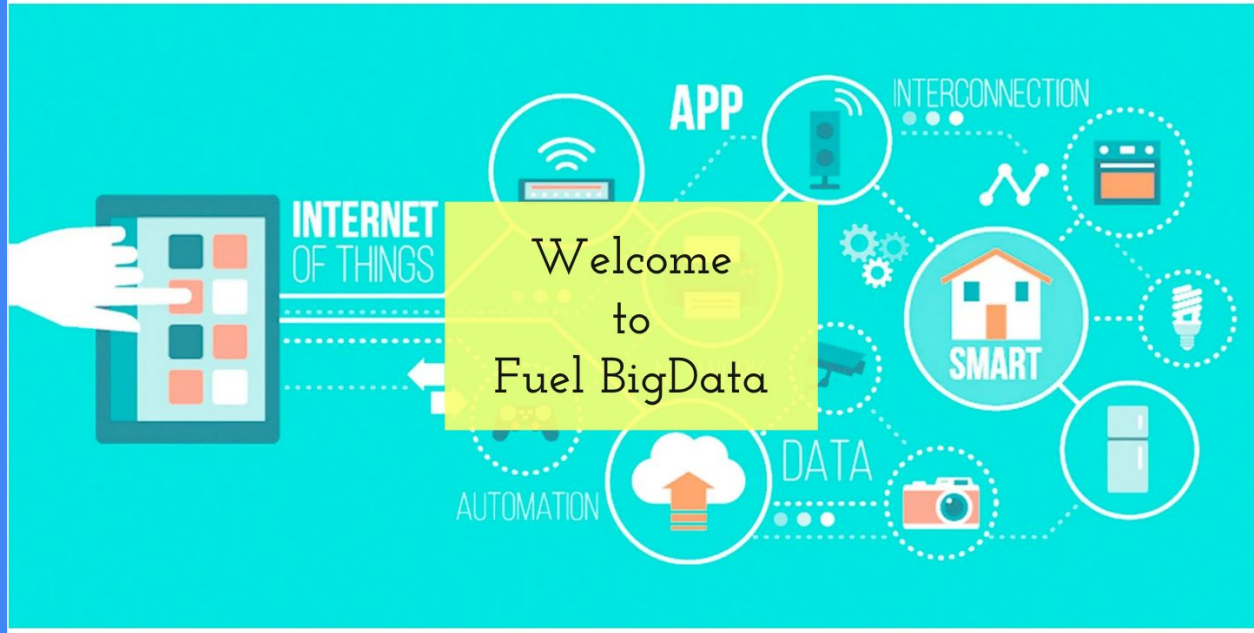
joao@fuelbigdata.com
+44 (0)7572550311

www.FuelBigData.com
UK - London

Fuel BigData

https://fuelbigdata.com Change

Fuel BigData



About Us