





Spark Made Simple

6 Fit Job

Transform JOB

6 Leveraging Spark MLib





You have a year of data into your (Punchplatform) ElasticSearch. You use it to

- react : Using Kibana and the power of ElasticSearch Query language, you keep an eye to what is going on you system.
- report : compute powerful aggregated indicators overs last weeks of data. You keep control of important or suspect activities.
- investigate : perform on demand search and analysis over historical data (up to one year)
- IOCs : check for indicator of compromise over arbitrary periods of data



You want more.

You wan to Benefit from data analytics and machine learning promises.

How do you do it?





















Leveraging Spark MLib



https://spark.apache.org/mllib/



Classification:

logistic regression, naive Bayes,...

Regression:

Generalized linear regression, survival regression,...

Decision trees, random forests,

Gradient-BOOSted trees

Recommendation:

alternating least squares (ALS)

Clustering:

K-means, Gaussian mixtures (GMMs),...

Topic modeling:

latent Dirichlet allocation (LDA)

Frequent itemsets, association rules, sequential pattern mining

ML Workflow

Feature transformations:

standardization, normalization, hashing,...

ML Pipeline construction

Model evaluation and hyper-parameter tuning

ML persistence:

saving and loading models and Pipelines



Distributed linear algebra: SVD, PCA,... Statistics: summary statistics, hypothesis testing,...





Spark is the future of data analytics. Punchplatform makes it real simple to design arbitrary Spark processings. Using only configuration files : no coding.

Benefiting from Punchplatform data normalisation.

Design, configure, deploy, run, monitor, visualise. Focus on your use cases, not on the technological stack.

You have no limit : you can design arbitrary Spark processing.

Be part of the Thales Data Analytics community. Join us to design clever ML processing.



