Resultant execution SPARK TP4:

./spark-submit --driver-memory 3G --executor-memory 4G --class com.sparkProject.JobML --master spark://dhcpwifi-23-55.enst.fr:7077 /Users/stephanetrublereau/Documents/tp_spark/target/scala-2.11/tp_spark-assembly-1.0.jar

Fin résultat execution :

16/11/16 16:52:13 WARN LogisticRegression: LogisticRegression training finished but the result is not converged because: max iterations reached

+	+
I features abel prediction	
+	+
l(111,[0,3,6,13,41l 1.0l	0.01
I[0.634002937,1.20I 1.0I	1.01
I[0.675649486,2.55I 1.0I	0.01
I[0.837491331,2.72I 1.0I	1.01
I[0.84338011,8.21EI 1.0I	1.01
I[0.927859821,5.49I 1.0I	1.01
I[1.005207007,5.09I 1.0I	1.01
I[1.118549717,3.12I 1.0I	1.01
I[1.287076762,1.19I 1.0I	1.01
I[1.311555568,5.54I 1.0I	1.01
I[1.538188437,6.86I 1.0I	0.01
I[1.653893465,4.02I 1.0I	1.01
I[1.720861324,6.3EI 1.0I	0.01
I[1.732345491,3.28I 1.0I	1.01
I[1.916944254,6.11I 1.0I	1.01
I[1.921437396,2.12I 1.0I	1.01
I[1.954524342,3.30I 1.0I	1.01
I[1.973760926,9.7EI 1.0I	0.01
I[2.00541269,1.065I 1.0I	1.01
I[2.03387914,1.415I 1.0I	1.01
+	+
only showing top 20 rows	

ROC BinaryClassificationEvaluator: 0.9450498949579832

Détail complet du CR produit

16/11/16 16:51:44 WARN NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable 16/11/16 16:51:45 WARN SparkContext: Use an existing SparkContext, some configuration may not take effect.

SLF4J: Failed to load class "org.slf4j.impl.StaticLoggerBinder".

SLF4J: Defaulting to no-operation (NOP) logger implementation

SLF4J: See http://www.slf4j.org/codes.html#StaticLoggerBinder for further details. 16/11/16 16:51:49 WARN Utils: Truncated the string representation of a plan since it

was too large. This behavior can be adjusted by setting 'spark.debug.maxToStringFields' in SparkEnv.conf.

(nombre de ligne : ,6410) (nombre de colonnes : ,113)

koi_period

koi_period_err1

koi_period_err2

koi_time0bk

koi_time0bk_err1

koi time0bk err2

koi_time0

koi_time0_err1

koi_time0_err2

koi_eccen

koi_impact

koi_impact_err1

koi_impact_err2

koi_duration

koi_duration_err1

koi_duration_err2

koi_depth

koi_depth_err1

koi_depth_err2

koi_ror

koi_ror_err1

koi_ror_err2

koi srho

koi_srho_err1

koi_srho_err2

koi prad

koi_prad_err1

koi_prad_err2

koi_sma

koi_incl

koi_teq

koi_insol

koi_insol_err1

koi_insol_err2

koi_dor

koi_dor_err1

koi_dor_err2

koi_ldm_coeff4

koi_ldm_coeff3

koi_ldm_coeff2

koi_ldm_coeff1

koi_max_sngle_ev

koi_max_mult_ev

koi_model_snr

koi_count

- koi_num_transits
- koi_tce_plnt_num
- koi_quarters
- koi_steff
- koi_steff_err1
- koi_steff_err2
- koi_slogg
- koi_slogg_err1
- koi_slogg_err2
- koi smet
- koi_smet_err1
- koi_smet_err2
- koi_srad
- koi_srad_err1
- koi_srad_err2
- koi_smass
- koi_smass_err1
- koi_smass_err2
- ra
- dec
- koi_kepmag
- koi_gmag
- koi_rmag
- koi_imag
- koi_zmag
- koi_jmag
- koi_hmag
- koi_kmag
- koi_fwm_stat_sig
- koi fwm sra
- koi_fwm_sra_err
- koi_fwm_sdec
- koi_fwm_sdec_err
- koi_fwm_srao
- koi_fwm_srao_err
- koi_fwm_sdeco
- koi_fwm_sdeco_err
- koi_fwm_prao
- koi_fwm_prao_err
- koi_fwm_pdeco
- koi_fwm_pdeco_err
- koi_dicco_mra
- koi_dicco_mra_err
- koi_dicco_mdec
- koi_dicco_mdec_err
- koi_dicco_msky
- koi_dicco_msky_err
- koi_dicco_fra
- koi_dicco_fra_err

```
koi dicco fdec
```

koi dicco fdec err

koi_dicco_fsky

koi_dicco_fsky_err

koi dikco mra

koi_dikco_mra_err

koi dikco mdec

koi_dikco_mdec_err

koi_dikco_msky

koi dikco msky err

koi_dikco_fra

koi_dikco_fra_err

koi_dikco_fdec

koi dikco fdec err

koi_dikco_fsky

koi_ror_min

koi_ror_max

root

- I-- rowid: integer (nullable = true)
- I-- koi_period: double (nullable = true)
- l-- koi_period_err1: double (nullable = true)
- I-- koi_period_err2: double (nullable = true)
- l-- koi_time0bk: double (nullable = true)
- l-- koi_time0bk_err1: double (nullable = true)
- I-- koi time0bk err2: double (nullable = true)
- I-- koi_time0: double (nullable = true)
- I-- koi time0 err1: double (nullable = true)
- I-- koi_time0_err2: double (nullable = true)
- l-- koi_eccen: integer (nullable = true)
- I-- koi impact: double (nullable = true)
- l-- koi_impact_err1: double (nullable = true)
- I-- koi_impact_err2: double (nullable = true)
- l-- koi_duration: double (nullable = true)
- l-- koi_duration_err1: double (nullable = true)
- I-- koi_duration_err2: double (nullable = true)
- I-- koi depth: double (nullable = true)
- I-- koi_depth_err1: double (nullable = true)
- I-- koi_depth_err2: double (nullable = true)
- I-- koi ror: double (nullable = true)
- l-- koi_ror_err1: double (nullable = true)
- I-- koi_ror_err2: double (nullable = true)
- I-- koi srho: double (nullable = true)
- I-- koi_srho_err1: double (nullable = true)
- l-- koi_srho_err2: double (nullable = true)
- I-- koi prad: double (nullable = true)
- l-- koi_prad_err1: double (nullable = true)
- I-- koi_prad_err2: double (nullable = true)
- I-- koi_sma: double (nullable = true)
- l-- koi_incl: double (nullable = true)

```
l-- koi_teq: double (nullable = true)
```

- l-- koi_insol: double (nullable = true)
- l-- koi_insol_err1: double (nullable = true)
- l-- koi_insol_err2: double (nullable = true)
- l-- koi_dor: double (nullable = true)
- l-- koi_dor_err1: double (nullable = true)
- l-- koi_dor_err2: double (nullable = true)
- I-- koi_ldm_coeff4: double (nullable = true)
- I-- koi_ldm_coeff3: double (nullable = true)
- I-- koi Idm coeff2: double (nullable = true)
- I-- koi_ldm_coeff1: double (nullable = true)
- l-- koi_max_sngle_ev: double (nullable = true)
- l-- koi_max_mult_ev: double (nullable = true)
- I-- koi_model_snr: double (nullable = true)
- I-- koi_count: integer (nullable = true)
- l-- koi_num_transits: integer (nullable = true)
- l-- koi_tce_plnt_num: integer (nullable = true)
- I-- koi_quarters: decimal(32,0) (nullable = true)
- I-- koi_steff: double (nullable = true)
- I-- koi_steff_err1: double (nullable = true)
- I-- koi_steff_err2: double (nullable = true)
- I-- koi_slogg: double (nullable = true)
- I-- koi_slogg_err1: double (nullable = true)
- I-- koi_slogg_err2: double (nullable = true)
- I-- koi_smet: double (nullable = true)
- I-- koi_smet_err1: double (nullable = true)
- I-- koi_smet_err2: double (nullable = true)
- I-- koi_srad: double (nullable = true)
- I-- koi_srad_err1: double (nullable = true)
- I-- koi srad err2: double (nullable = true)
- I-- koi_smass: double (nullable = true)
- I-- koi_smass_err1: double (nullable = true)
- I-- koi_smass_err2: double (nullable = true)
- I-- ra: double (nullable = true)
- I-- dec: double (nullable = true)
- I-- koi_kepmag: double (nullable = true)
- I-- koi_gmag: double (nullable = true)
- l-- koi_rmag: double (nullable = true)
- I-- koi_imag: double (nullable = true)
- l-- koi_zmag: double (nullable = true)
- I-- koi_jmag: double (nullable = true)
- I-- koi_hmag: double (nullable = true)
- I-- koi_kmag: double (nullable = true)
- l-- koi_fwm_stat_sig: double (nullable = true)
- l-- koi_fwm_sra: double (nullable = true)
- l-- koi_fwm_sra_err: double (nullable = true)
- I-- koi_fwm_sdec: double (nullable = true)
- l-- koi_fwm_sdec_err: double (nullable = true)
- l-- koi_fwm_srao: double (nullable = true)

```
I-- koi fwm srao err: double (nullable = true)
I-- koi fwm sdeco: double (nullable = true)
I-- koi_fwm_sdeco_err: double (nullable = true)
I-- koi fwm prao: double (nullable = true)
I-- koi fwm prao err: double (nullable = true)
I-- koi_fwm_pdeco: double (nullable = true)
I-- koi fwm pdeco err: double (nullable = true)
l-- koi_dicco_mra: double (nullable = true)
I-- koi_dicco_mra_err: double (nullable = true)
I-- koi dicco mdec: double (nullable = true)
I-- koi_dicco_mdec_err: double (nullable = true)
I-- koi_dicco_msky: double (nullable = true)
l-- koi_dicco_msky_err: double (nullable = true)
I-- koi dicco fra: double (nullable = true)
I-- koi_dicco_fra_err: double (nullable = true)
l-- koi_dicco_fdec: double (nullable = true)
I-- koi_dicco_fdec_err: double (nullable = true)
I-- koi_dicco_fsky: double (nullable = true)
l-- koi_dicco_fsky_err: double (nullable = true)
I-- koi_dikco_mra: double (nullable = true)
l-- koi_dikco_mra_err: double (nullable = true)
I-- koi dikco mdec: double (nullable = true)
I-- koi_dikco_mdec_err: double (nullable = true)
l-- koi_dikco_msky: double (nullable = true)
I-- koi dikco msky err: double (nullable = true)
I-- koi_dikco_fra: double (nullable = true)
I-- koi dikco fra err: double (nullable = true)
I-- koi_dikco_fdec: double (nullable = true)
l-- koi_dikco_fdec_err: double (nullable = true)
I-- koi dikco fsky: double (nullable = true)
l-- koi_disposition: string (nullable = true)
I-- koi_ror_min: double (nullable = true)
I-- koi_ror_max: double (nullable = true)
(nombre de ligne: ,6410)
(nombre de colonnes:,114)
(nombre de ligne: ,6410)
(nombre de colonnes : ,2)
root
I-- koi disposition: string (nullable = true)
I-- features: vector (nullable = true)
+----+
Ikoi_dispositionI
                      featuresl
+-----
    CONFIRMEDI[9.48803146,2.95E...I
П
    CONFIRMEDI[54.418464,2.686E...I
    CONFIRMEDI[2.525593315,3.66...I
    CONFIRMEDI[11.09431923,2.13...I
```

```
CONFIRMEDI[4.13443005,1.061...I
Т
    CONFIRMEDI[2.56659092,1.598...I
I FALSE POSITIVEI[7.36178044,1.589...I
    CONFIRMEDI[16.06862959,1.16...I
CONFIRMEDI[2.470613385,1.9E...I
1
    CONFIRMEDI[2.204735365,3.8E...I
    CONFIRMEDI[3.522498573,1.94...I
    CONFIRMEDI[3.709213846,6.32...I
I FALSE POSITIVEI[11.521446107,2.0...I
I FALSE POSITIVEI[19.40398222,1.39...I
I FALSE POSITIVEI[16.46983563,1.20...I
CONFIRMEDI[9.27358194,1.178...I
Τ
    CONFIRMEDI[6.029301321,5.36...I
I FALSE POSITIVEI[2.696365214,7.04...I
    CONFIRMEDI[5.34955671,9.141...I
    CONFIRMEDI[3.94104632,1.16E...I
+----+
only showing top 20 rows
root
I-- koi_disposition: string (nullable = true)
I-- features: vector (nullable = true)
I-- label: double (nullable = true)
+----+
Ikoi_dispositionl featuresllabell
+----+
   CONFIRMEDI[9.48803146,2.95E...l 1.0l
П
   CONFIRMEDI[54.418464,2.686E...I 1.0I
CONFIRMEDI[2.525593315,3.66...I 1.0I
   CONFIRMEDI[11.09431923,2.13...I 1.0I
    CONFIRMEDI[4.13443005,1.061...l 1.0l
    CONFIRMEDI[2.56659092,1.598...l 1.0l
I FALSE POSITIVEI[7.36178044,1.589...I 0.0I
   CONFIRMEDI[16.06862959,1.16...I 1.0I
1
    CONFIRMEDI[2.470613385,1.9E...l 1.0l
Т
   CONFIRMEDI[2.204735365,3.8E...I 1.0I
П
    CONFIRMEDI[3.522498573,1.94...l 1.0l
    CONFIRMEDI[3.709213846,6.32...l 1.0l
I FALSE POSITIVEI[11.521446107,2.0...I 0.0I
I FALSE POSITIVEI[19.40398222,1.39...I 0.0I
I FALSE POSITIVEI[16.46983563,1.20...I 0.0I
    CONFIRMEDI[9.27358194,1.178...l 1.0l
    CONFIRMEDI[6.029301321,5.36...I 1.0I
I FALSE POSITIVEI[2.696365214,7.04...I 0.0I
CONFIRMEDI[5.34955671,9.141...l 1.0l
    CONFIRMEDI[3.94104632,1.16E...l 1.0l
+-----
only showing top 20 rows
```

```
root
I-- koi_disposition: string (nullable = true)
I-- features: vector (nullable = true)
I-- label: double (nullable = true)
+----+
Ikoi dispositionI
                featuresllabell
+----+
   CONFIRMEDI(111,[0,1,2,3,4,5...l 1.0l
    CONFIRMEDI(111,[0,1,2,3,4,5...l 1.0l
П
    CONFIRMEDI(111,[0,1,2,3,4,5...l 1.0l
I
    CONFIRMEDI(111,[0,1,2,3,4,5...l 1.0l
    CONFIRMEDI(111,[0,1,2,3,4,5...I 1.0I
    CONFIRMEDI(111,[0,1,2,3,4,5...l 1.0l
I
    CONFIRMEDI(111,[0,1,2,3,4,5...I 1.0I
CONFIRMEDI(111,[0,1,2,3,4,5...l 1.0l
    CONFIRMEDI(111,[0,1,2,3,4,5...l 1.0l
    CONFIRMEDI(111,[0,1,2,3,4,5...I 1.0I
I
    CONFIRMEDI(111,[0,1,2,3,4,5...I 1.0I
    CONFIRMEDI(111,[0,1,2,3,4,5...I 1.0I
I
    CONFIRMEDI(111,[0,1,2,3,4,5...l 1.0l
    CONFIRMEDI(111,[0,1,2,3,4,5...I 1.0I
    CONFIRMEDI(111,[0,1,2,3,4,5...I 1.0I
Т
    CONFIRMEDI(111,[0,3,6,13,44...I 1.0I
CONFIRMEDI[0.538354308,6.75...l 1.0l
    CONFIRMEDI[0.539915238,1.35...l 1.0l
    CONFIRMEDI[0.567857136,4.44...l 1.0l
    CONFIRMEDI[0.568874427,6.01...l 1.0l
+----+
only showing top 20 rows
[D@3c62be3c16/11/16 16:51:53 WARN BLAS: Failed to load implementation from:
com.github.fommil.netlib.NativeSystemBLAS
16/11/16 16:51:53 WARN BLAS: Failed to load implementation from:
com.github.fommil.netlib.NativeRefBLAS
16/11/16 16:52:13 WARN LogisticRegression: LogisticRegression training finished
but the result is not converged because: max iterations reached
+----+
       featuresllabellpredictionl
+----+
I(111,[0,3,6,13,41...I 1.0I
I[0.634002937,1.20...l 1.0l
                            1.01
1[0.675649486,2.55...1 1.0]
                            0.01
                            1.01
1[0.837491331,2.72...1 1.0]
I[0.84338011,8.21E...l 1.0l
                            1.01
1[0.927859821,5.49...| 1.0|
                            1.01
```

1.01

1.01

I[1.005207007,5.09...I 1.0I I[1.118549717,3.12...I 1.0I

```
I[1.287076762,1.19...I 1.0I
                              1.01
I[1.311555568,5.54...I 1.0I
                              1.01
I[1.538188437,6.86...l 1.0l
                              0.01
I[1.653893465,4.02...I 1.0I
                              1.01
I[1.720861324,6.3E...I 1.0I
                              0.01
I[1.732345491,3.28...I 1.0I
                              1.01
I[1.916944254,6.11...I 1.0I
                              1.01
I[1.921437396,2.12...I 1.0I
                              1.01
I[1.954524342,3.30...I 1.0I
                              1.01
I[1.973760926,9.7E...I 1.0I
                              0.01
I[2.00541269,1.065...I 1.0I
                              1.01
I[2.03387914,1.415...l 1.0l
                              1.01
+----+
only showing top 20 rows
```

ROC BinaryClassificationEvaluator: 0.9450498949579832