**Risultati classificatori**

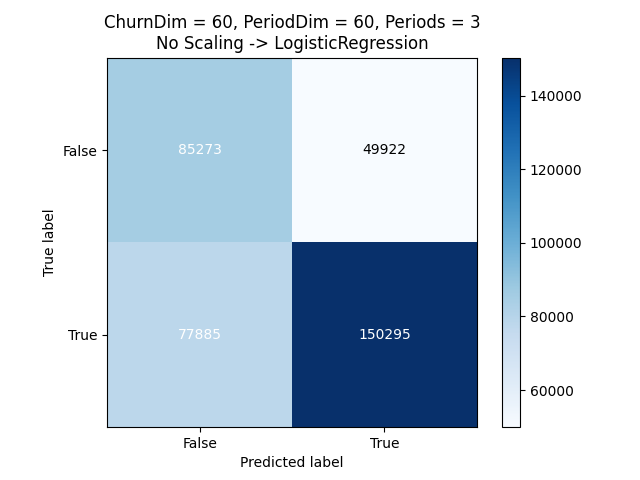
Casistiche e metriche a confronto

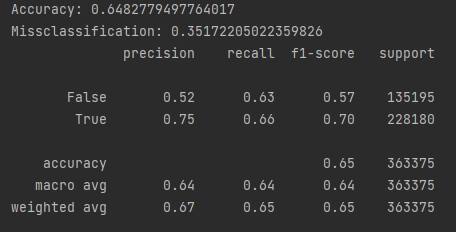
17 novembre 2022

Andrea BRUNETTA , FRANCESCO LUCE

**LOGISTIC REGRESSION**

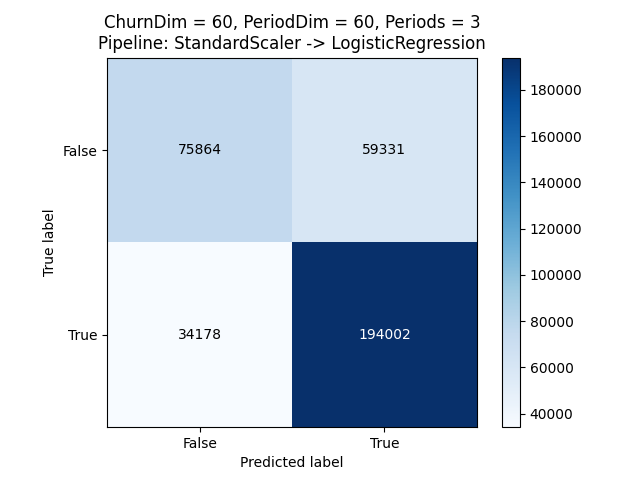
**Logistic Regression – No Scaling**: 70% Training, 30% test – ‘churn\_retail\_db’.

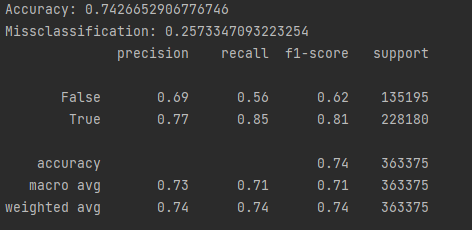
****Non è stato applicato nessuno scaler. A sinistra la matrice di confusione e a destra il report.

****

**Logistic Regression – StandardScaler**: 70% Training, 30% test – ‘churn\_retail\_db’.

È stato applicato StandardScaler di river.preprocessing con meccansimo Pipeline. A sinistra la matrice di confusione e a destra il report.

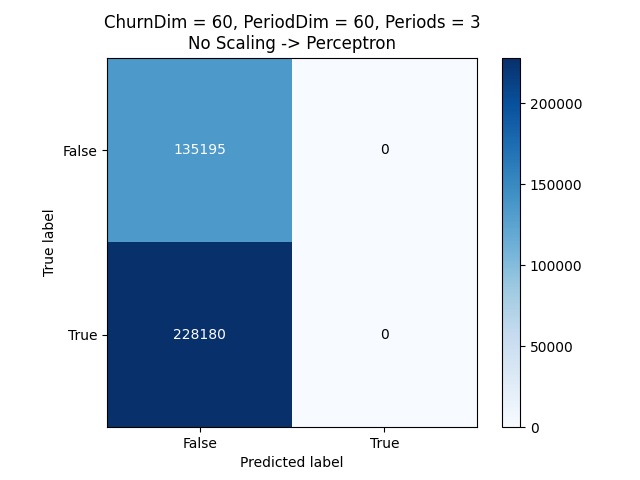


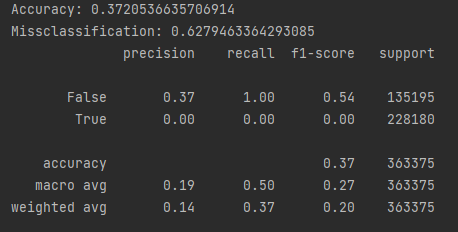


**PERCEPTRON**

**Perceptron – No Scaling**: 70% Training, 30% test – ‘churn\_retail\_db’.

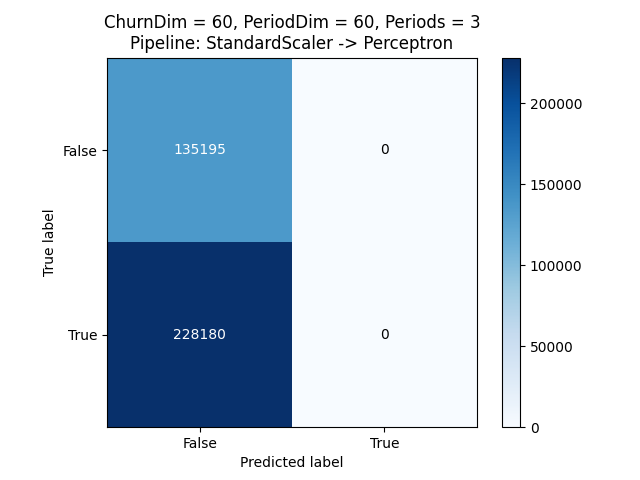
Non è stato applicato nessuno scaler. A sinistra la matrice di confusione e a destra il report.

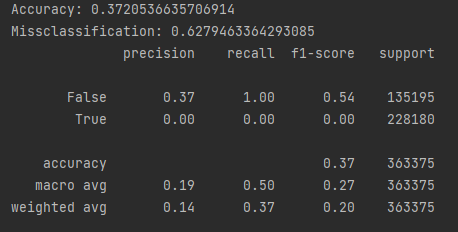
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**Perceptron – StandardScaler**: 70% Training, 30% test – ‘churn\_retail\_db’.

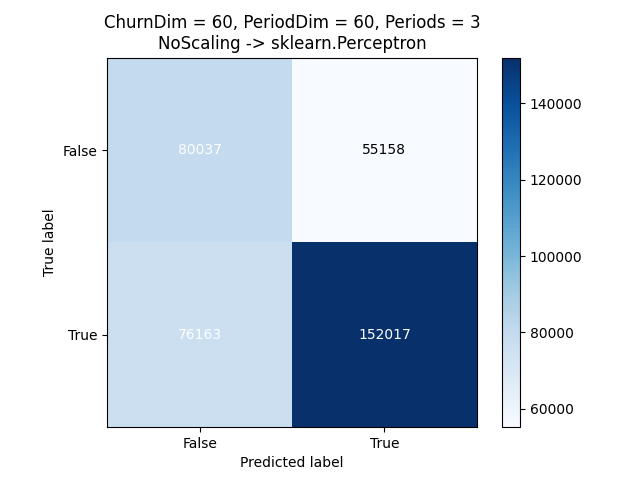
È stato applicato StandardScaler di river.preprocessing con meccansimo Pipeline. A sinistra la matrice di confusione e a destra il report.

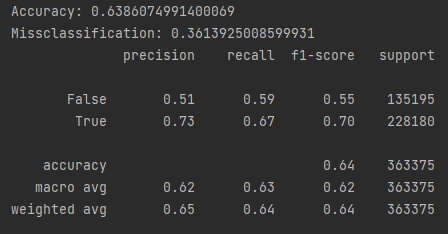


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**sklearn.PERCEPTRON**

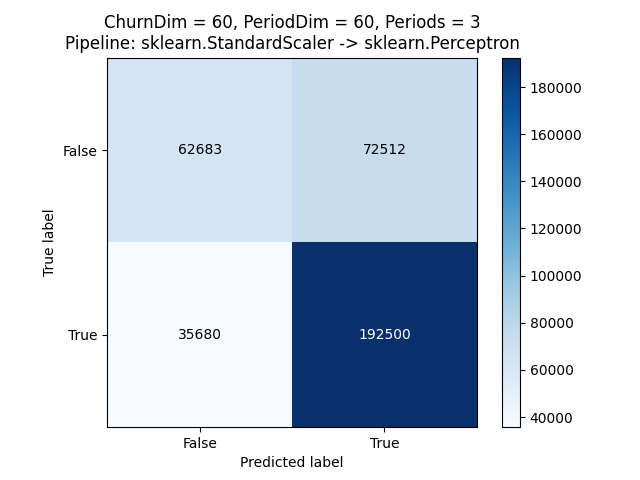
**sklearn.Perceptron – No Scaling**: 70% Training, 30% test – ‘churn\_retail\_db’. Metodo offline.

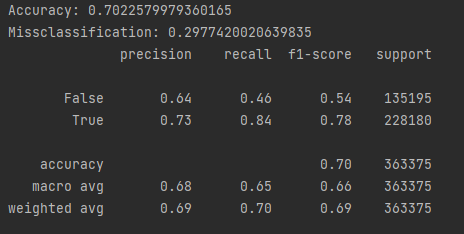
****Non è stato applicato nessuno scaler. A sinistra la matrice di confusione e a destra il report.

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**sklear.Perceptron – StandardScaler**: 70% Training, 30% test – ‘churn\_retail\_db’. Metodo offline.

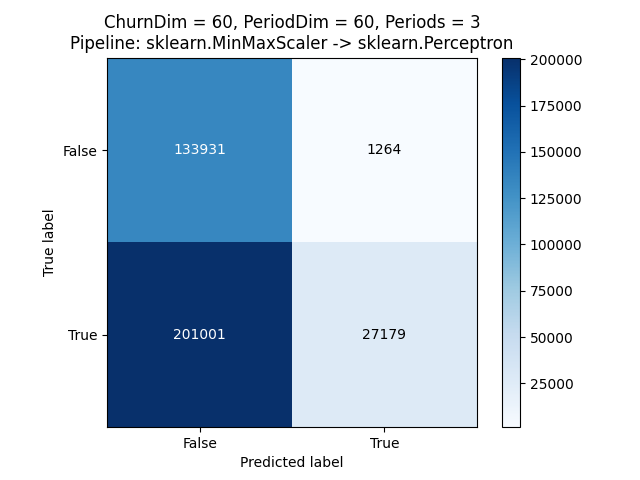
È stato applicato StandardScaler di sklearn. A sinistra la matrice di confusione e a destra il report.

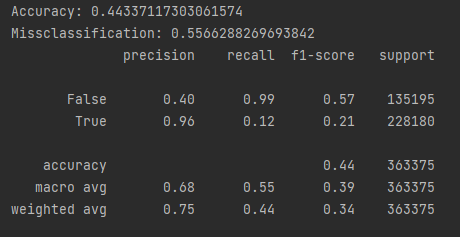




**sklear.Perceptron – MinMaxScaler**: 70% Training, 30% test – ‘churn\_retail\_db’. Metodo offline.

È stato applicato MinMaxScaler di sklearn. A sinistra la matrice di confusione e a destra il report.

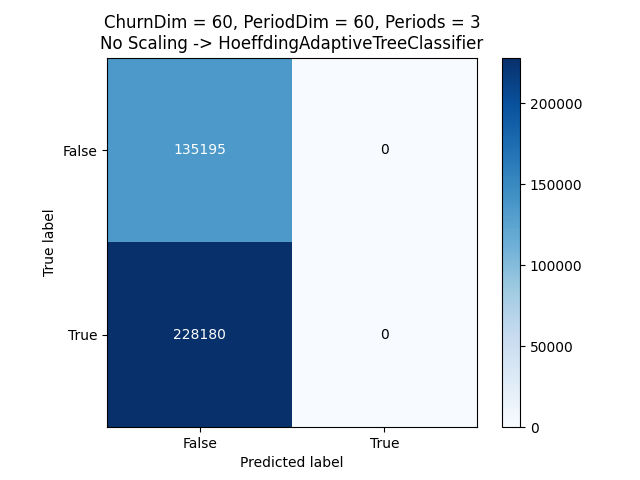


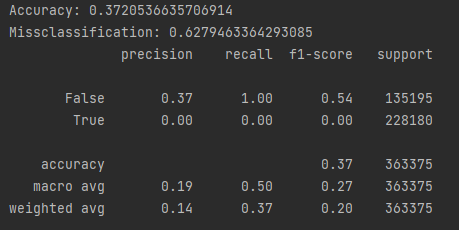


**HOEFFDINGADAPTIVETREECLASSIFIER**

**HoeffdingAdaptiveTreeClassifier– No Scaling**: 70% Training, 30% test – ‘churn\_retail\_db’.

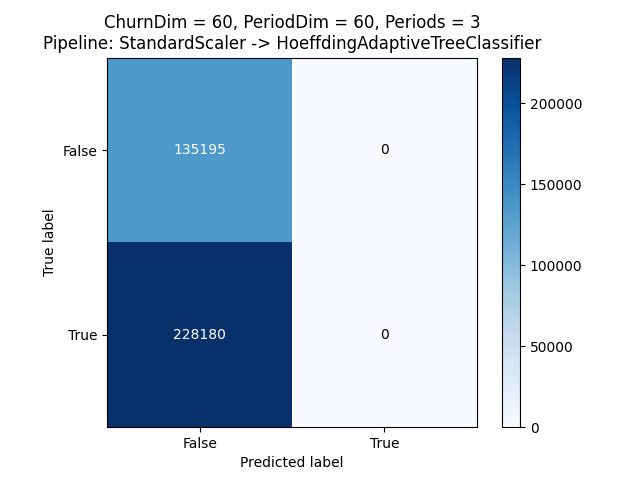
Non è stato applicato nessuno scaler. A sinistra la matrice di confusione e a destra il report.

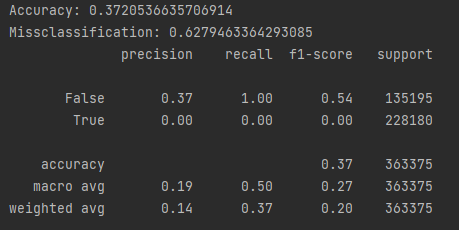


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**HoeffdingAdaptiveTreeClassifier – StandardScaler**: 70% Training, 30% test – ‘churn\_retail\_db’.

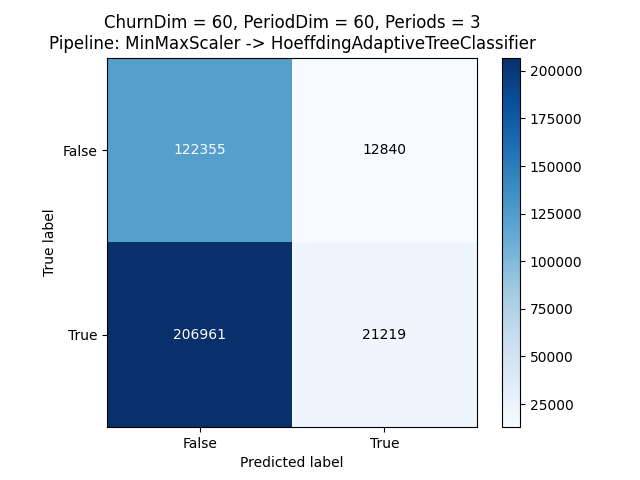
È stato applicato StandardScaler di river.preprocessing con meccansimo Pipeline. A sinistra la matrice di confusione e a destra il report.

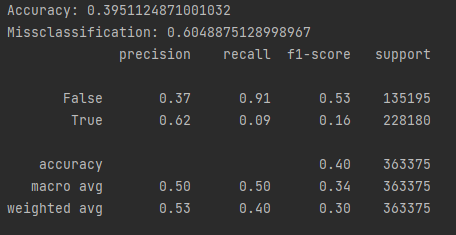
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**HoeffdingAdaptiveTreeClassifier – MinMaxScaler**: 70% Training, 30% test – ‘churn\_retail\_db’.

È stato applicato MinMaxScaler di river.preprocessing con meccansimo Pipeline. A sinistra la matrice di confusione e a destra il report.

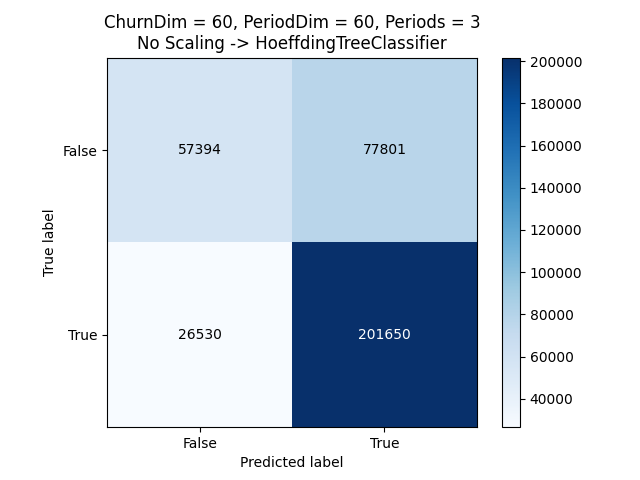


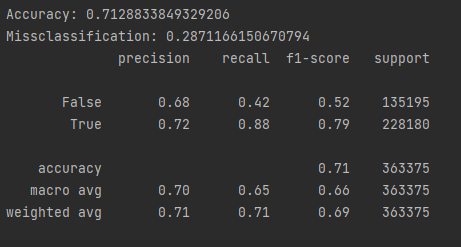


**HOEFFDINGTREECLASSIFIER**

**HoeffdingTreeClassifier– No Scaling**: 70% Training, 30% test – ‘churn\_retail\_db’.

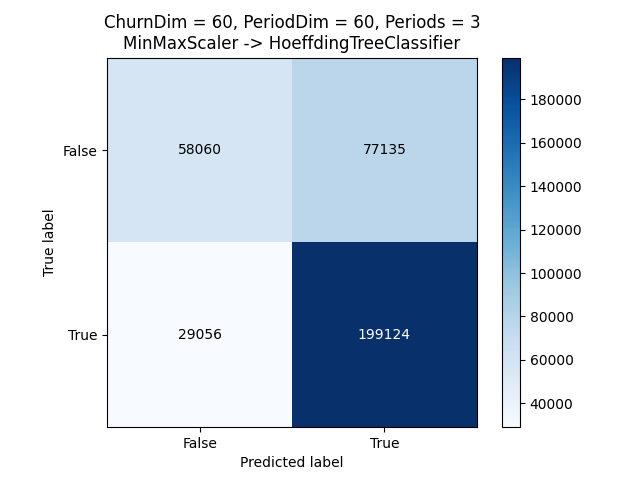
Non è stato applicato nessuno scaler. A sinistra la matrice di confusione e a destra il report.

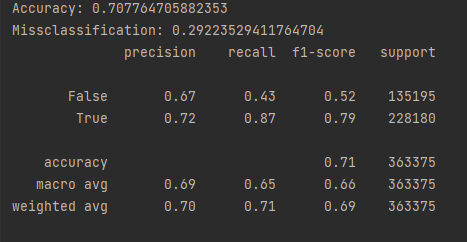




**HoeffdingTreeClassifier– MinMaxScaler**: 70% Training, 30% test – ‘churn\_retail\_db’.

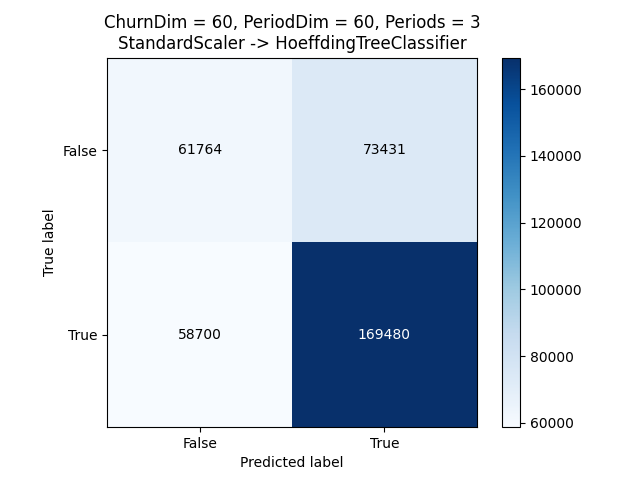
È stato applicato MinMaxScaler di river.preprocessing con meccansimo Pipeline. A sinistra la matrice di confusione e a destra il report.

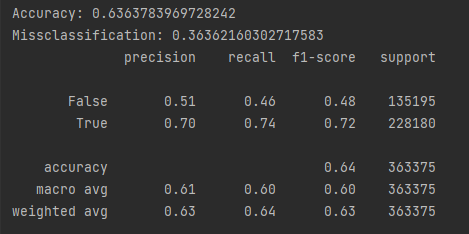




**HoeffdingTreeClassifier– StandardScaler**: 70% Training, 30% test – ‘churn\_retail\_db’.

È stato applicato StandardScaler di river.preprocessing con meccansimo Pipeline. A sinistra la matrice di confusione e a destra il report.

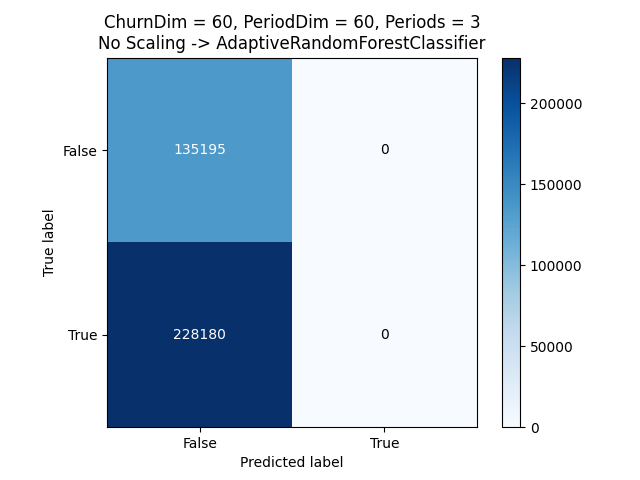


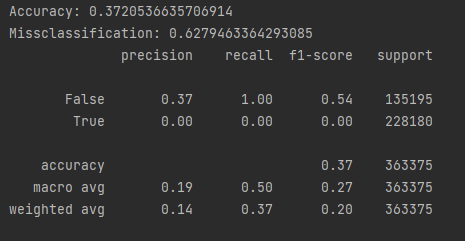


**ADAPTIVERANDOMFORESTCLASSIFIER**

**AdaptiveRandomForestClassifier– No Scaling**: 70% Training, 30% test – ‘churn\_retail\_db’.

Non è stato applicato nessuno scaler. A sinistra la matrice di confusione e a destra il report.





**AdaptiveRandomForestClassifier– StandardScaler**: 70% Training, 30% test – ‘churn\_retail\_db’.

Non è stato applicato nessuno scaler. A sinistra la matrice di confusione e a destra il report.

