

Implémentez un modèle de scoring



Summary

- Objectives and context 🐺
 - The data set
 - **Modelling** M
 - MLOps @
 - Data Drift
 - **Demonstration** 🗜

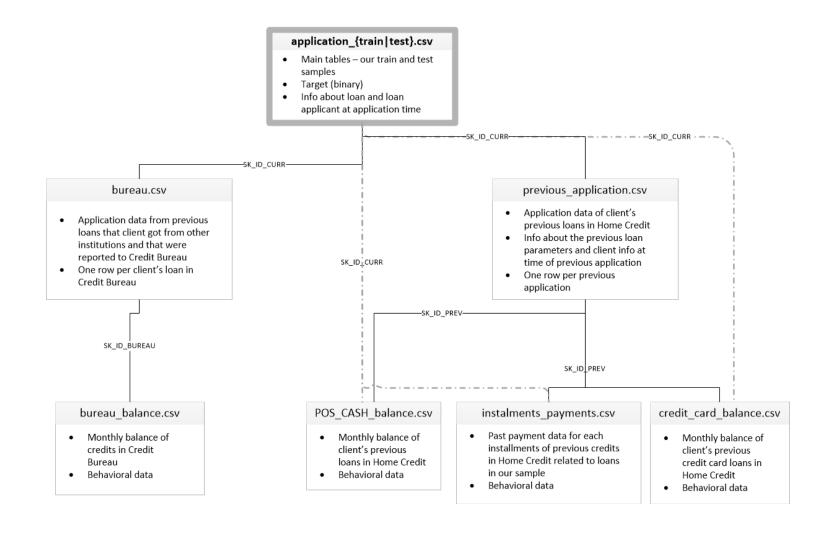


Objectives and context

- Une clientèle avec peu d'historique
- Demande de transparence dans les décisions d'octroi de crédit
- Prédire la probabilité de défaut de paiement
- Mise en place d'un tableau de bord interactif



The data set





The data set – Features Engineering

Raw data set (307511, 122)

Encoding Categ Variables

(Label, OneHot)

Imputation of missing values

(SimpleImputer)

Final data set

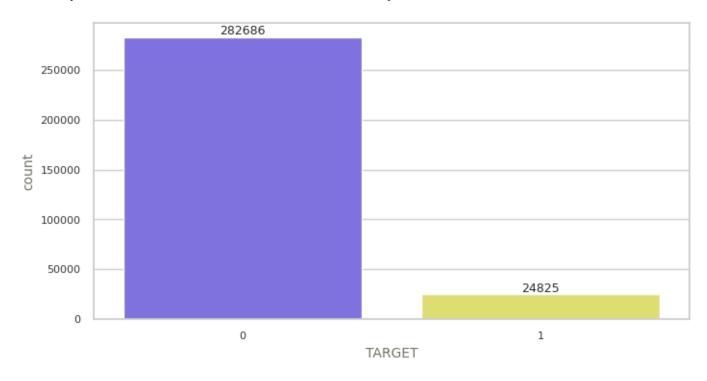
(307511, 239)



The data set - Target

0 le prêt a été remboursé 1 le prêt n'a pas été remboursé

Répartition des demandeurs de prêt en mesure de le rembourser





Modelling – Pipeline d'entrainement

Normalisation

(MinMaxScaler)

Réduction de dimension

(RFE)

Optimisation du seuil de décision

(TunedThresholdClas sifierCV)

Optimisation des hyperparamètres

(GridSearchCV)

Modelling – **Mesures**

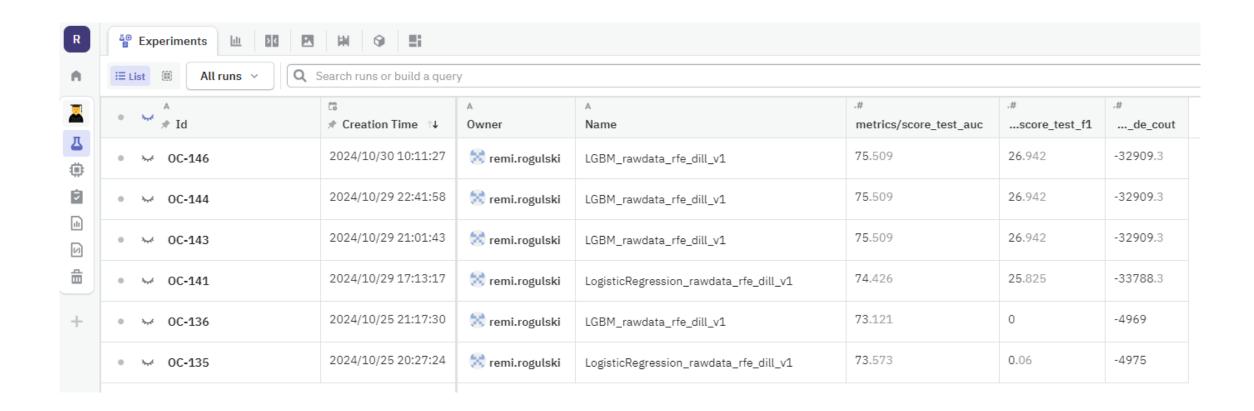
Fonction personnalisée pour refléter l'impact financier

Métriques de performance

- AUC (Area Under the Curve) : Évalue la capacité globale du modèle à distinguer les classes, permettant d'optimiser le seuil de décision.
- **F1-Score** : Balance précision et rappel pour assurer une performance équilibrée, complémentaire à la minimisation des FN.

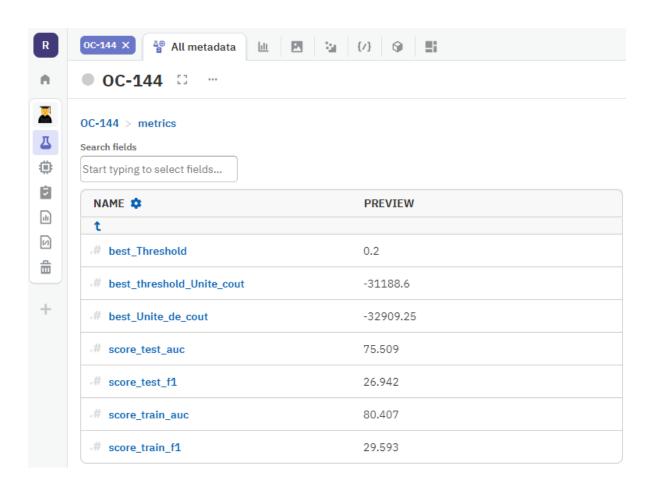


Modelling - Tracking Neptune.io





Modelling – Synthèse des résultats



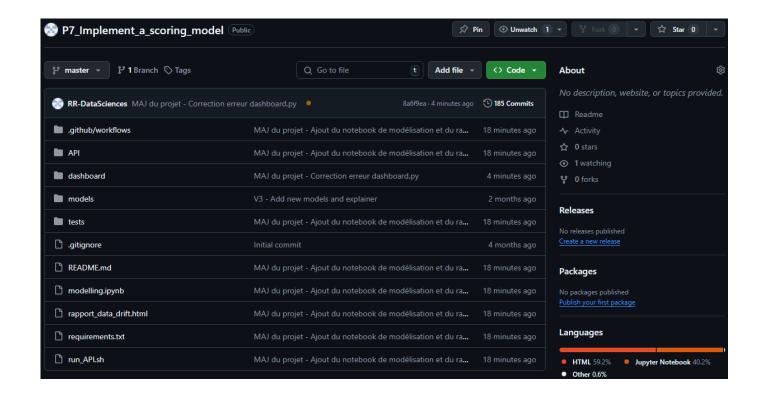


MLOps – Architecture





MLOps – Repository







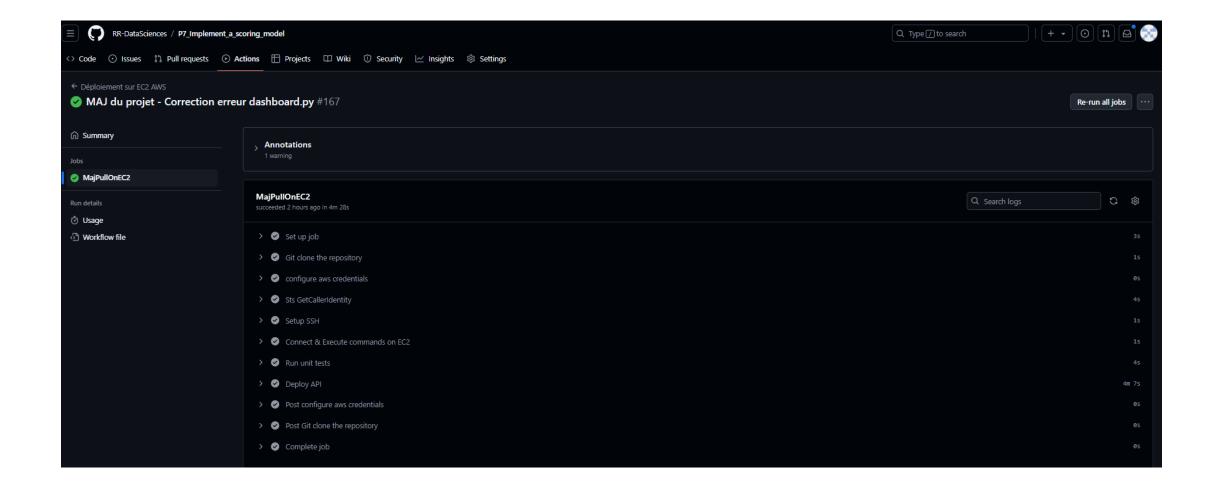
MLOps – Commits

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MLOps – GitHub Actions





MLOps – Unit testing

```
✓ ✓ Run unit tests
    1 ▶ Run ssh -o StrictHostKeyChecking=no -i ~/.ssh/id_rsa ec2-user@ec2-54-171-37-232.eu-west-1.compute.amazonaws.com << EOF
   14 Pseudo-terminal will not be allocated because stdin is not a terminal.
   15 A newer release of "Amazon Linux" is available.
   16 Version 2023.5.20240730:
        Version 2023.5.20240805:
        Version 2023.5.20240819:
        Version 2023.5.20240903:
        Version 2023.5.20240916:
        Version 2023.5.20241001:
         Version 2023.6.20241010:
   23 Run "/usr/bin/dnf check-release-update" for full release and version update info
          , #_
         ~\_ ####_
                           Amazon Linux 2023
        ~~ \_#####\
               \###
                 \#/ ___ https://aws.amazon.com/linux/amazon-linux-2023
               JJ
              _/m/'
   37 Ran 4 tests in 0.052s
   38 OK
   39 Your selected dataframe has 2 columns.
   40 There are 2 columns that have missing values.
   41 Description avant RFE: (1, 239)
   42 Description après RFE : (1, 71)
   43 Résultats de prédiction : [0], Score : [[0.30213113 0.69786887]]
   44 Description des valeurs SHAP : (1, 71)
```



Data Drift

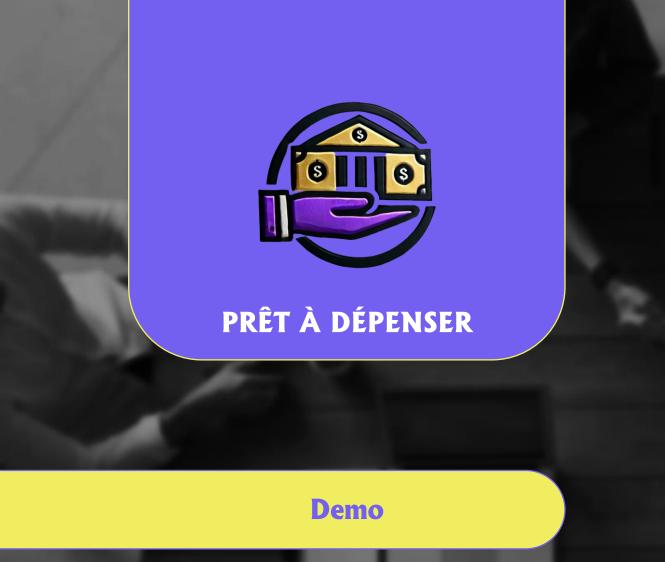
Dataset Drift

Dataset Drift is NOT detected. Dataset drift detection threshold is 0.5

240 10 0.0417
Columns Drifted Columns Share of Drifted Columns

Data Drift Summary

Drif	t is detected for 4.167% of c	columns (10 out of 240)).				
						C	Search X
	Column	Туре	Reference Distribution	Current Distribution	Data Drift	Stat Test	Drift Score
>	DAYS_BIRTH	num			Detected	Wasserstein distance (normed)	7.356832
>	AMT_REQ_CREDIT_BUREAU_QRT	num		I	Detected	Wasserstein distance (normed)	0.359052
>	AMT_REQ_CREDIT_BUREAU_MON	num	L	.	Detected	Wasserstein distance (normed)	0.281765
>	AMT_GOODS_PRICE	num	II.	II.	Detected	Wasserstein distance (normed)	0.210785
>	AMT_CREDIT	num	II.	II.	Detected	Wasserstein distance (normed)	0.207334
>	AMT_ANNUITY	num	I		Detected	Wasserstein distance (normed)	0.161102









MLOps @

Data Drift

Demonstration 🗜