



YOUCODE

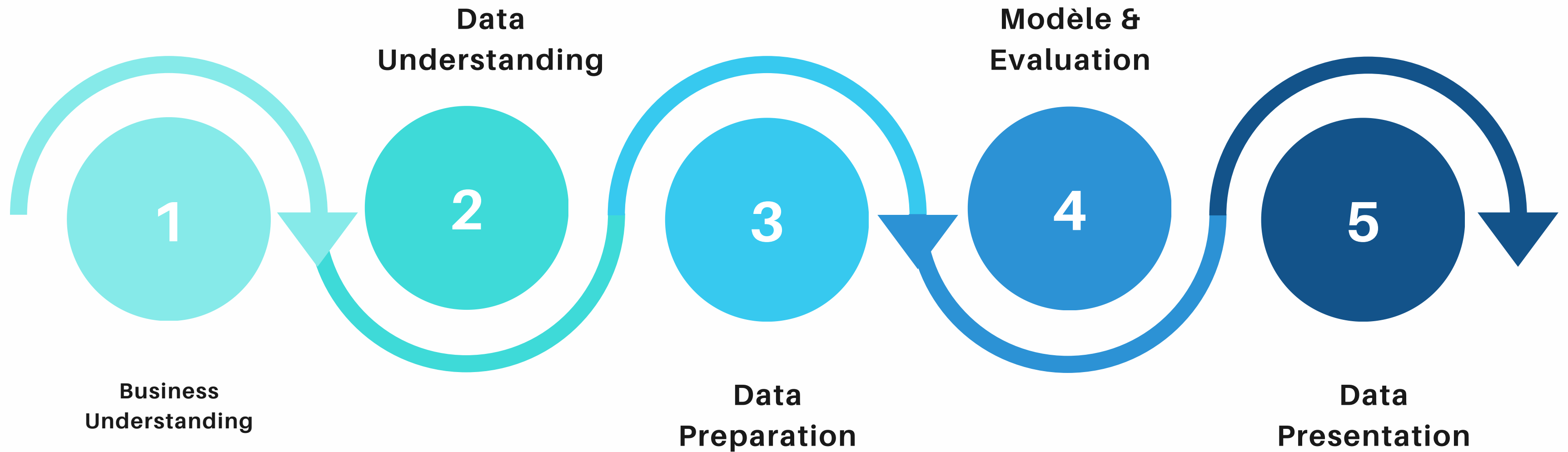
SPRINT BIG DATA

EVALUATION



Présenté par : YONLI Fidele

PLANNING

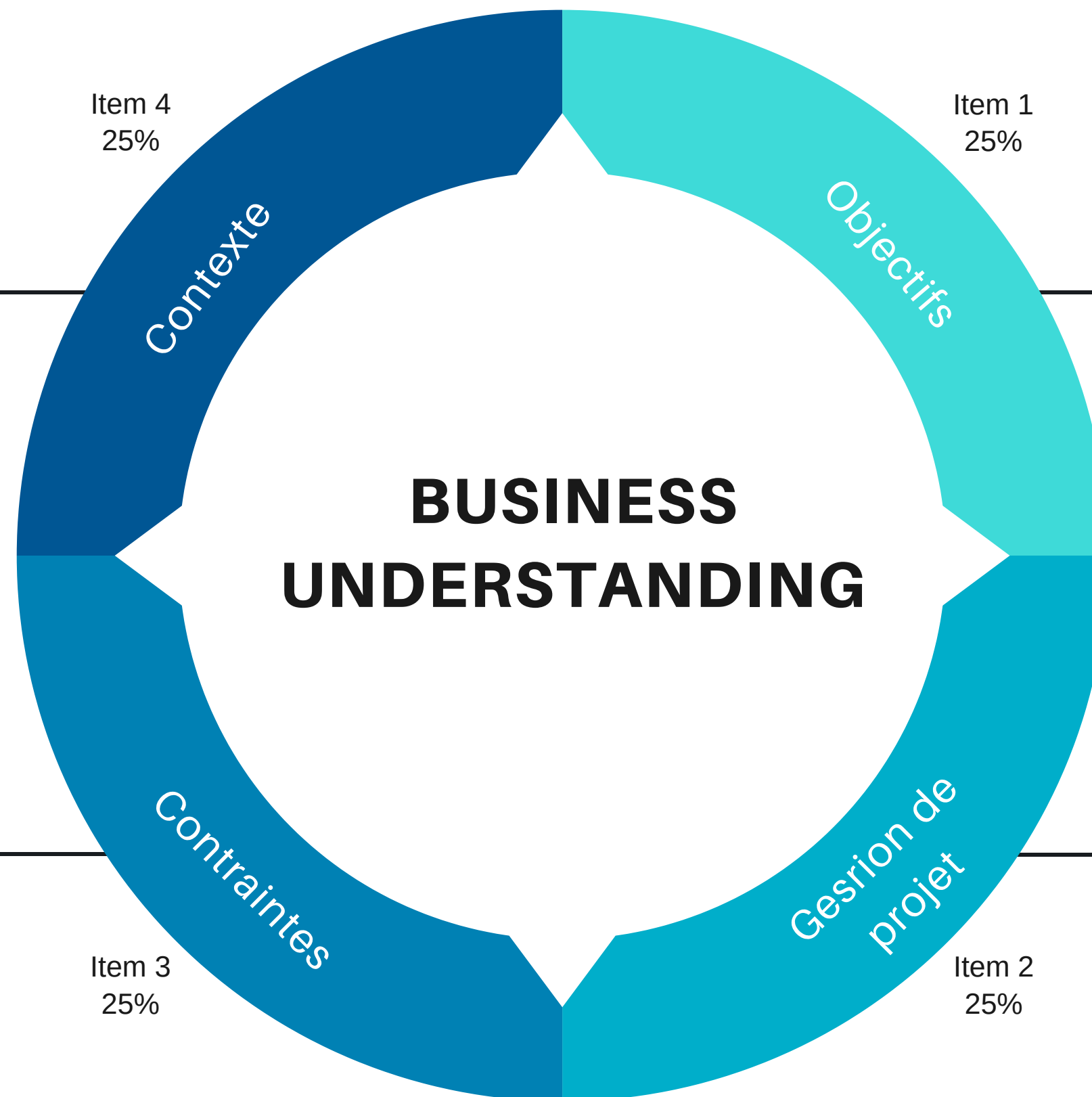


FidelisProd, plateforme de films

- Comprendre ses utilisateurs pour proposer le contenu convenable
- Personnaliser l'expérience utilisateur

Temps

Couts



Analyse en temps reel

**Recommandation
basée sur un modèle
de Machine Learning**

**CRISP-DM
GitHub project**



Elasticsearch

Stockage des données
Performance
Sécurité



Transformation en temps réel
Machine Learning
Rapidité
Scalabilité



Kibana

Visualisation



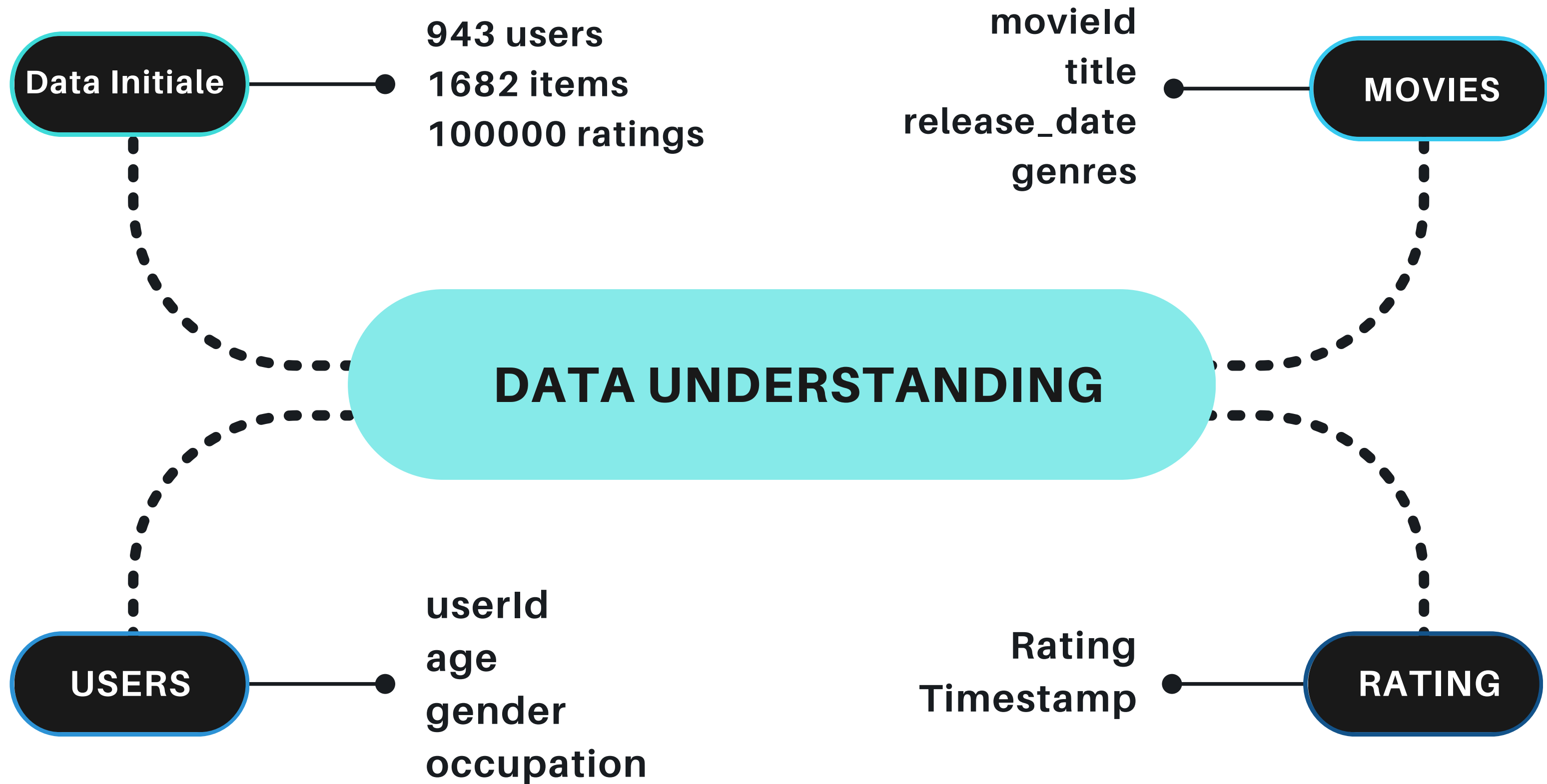
Kafka

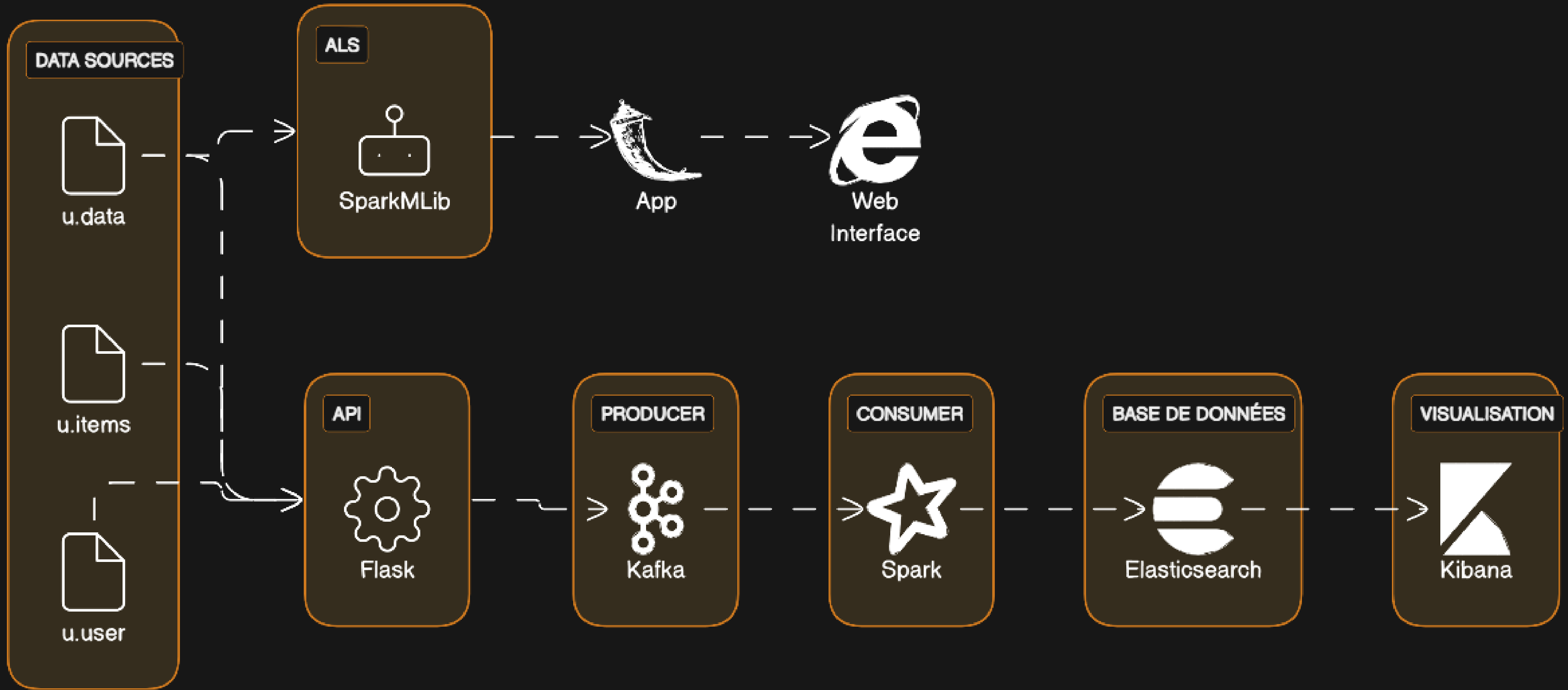
Ingestion en temps réel
Faible latence
Durabilité
Scalabilité



Flask

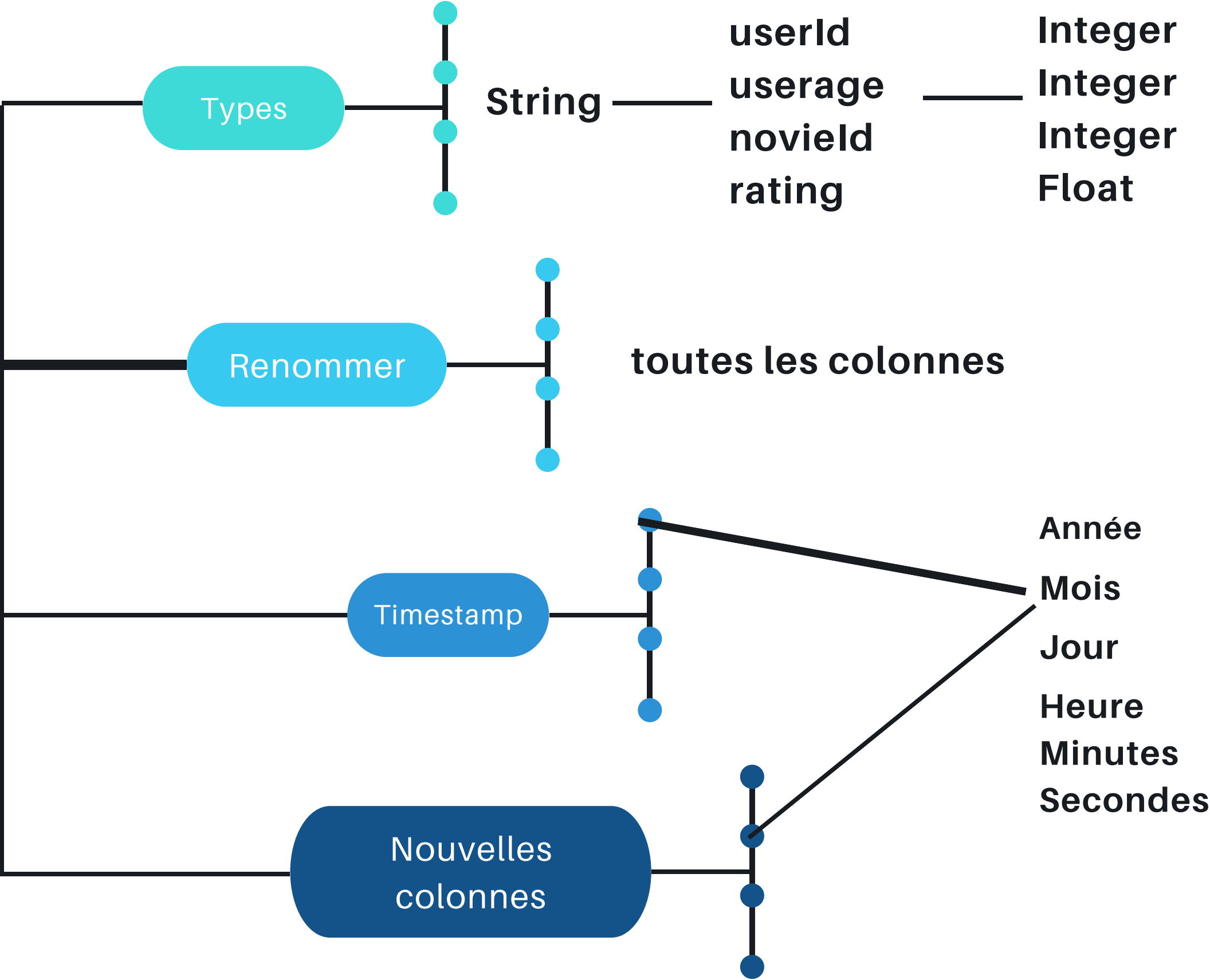
API
Recommandation
Facilité





```
schema = StructType([
    StructField("userinfo", StructType([
        StructField("userId", StringType(), True),
        StructField("usage", StringType(), True),
        StructField("usergender", StringType(), True)
    ])),
    StructField("movie", StructType([
        StructField("movieId", StringType(), True),
        StructField("title", StringType(), True),
        StructField("release_date", StringType(), True),
        StructField("genres", ArrayType(StringType()), True)
    ])),
    StructField("rating", StringType(), True),
    StructField("timestamp", StringType(), True)
])
```

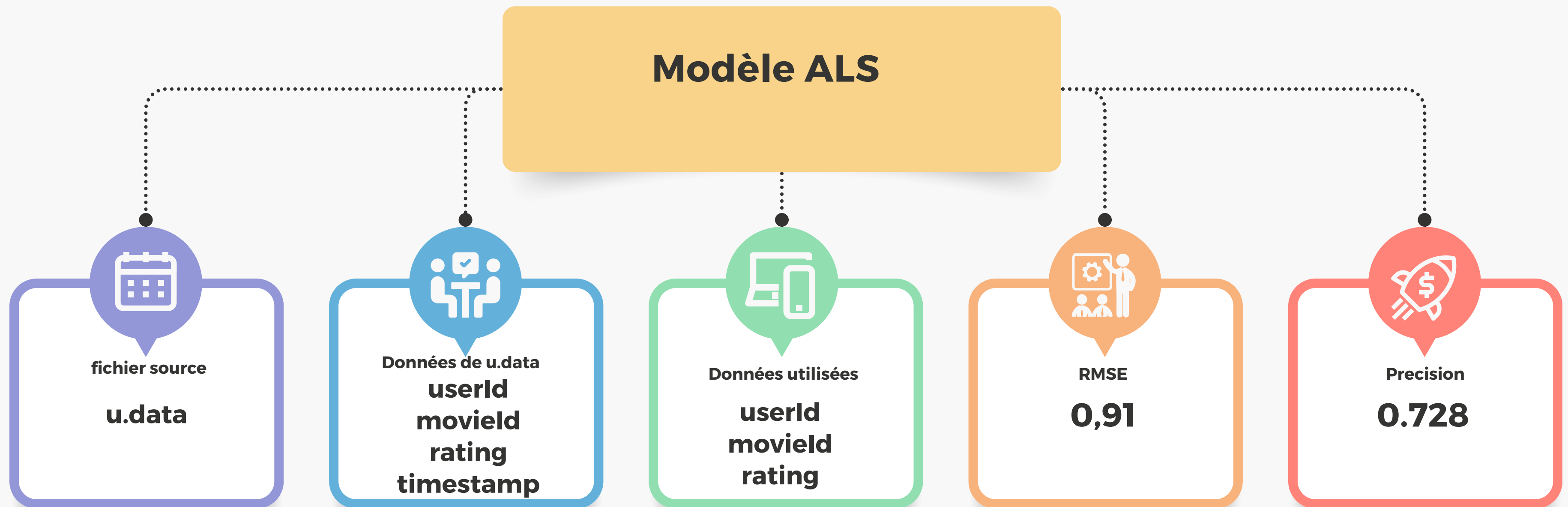
DATA PREPARATION



```
| -- userId: integer (nullable = true)
| -- age: integer (nullable = true)
| -- gender: string (nullable = true)
| -- movieId: integer (nullable = true)
| -- title: string (nullable = true)
| -- genres: array (nullable = true)
|   |-- element: string (containsNull = true)
| -- rating: float (nullable = true)
| -- timestamp: timestamp (nullable = true)
| -- year: integer (nullable = true)
| -- month: integer (nullable = true)
| -- day: integer (nullable = true)
| -- hour: integer (nullable = true)
| -- minute: integer (nullable = true)
| -- second: integer (nullable = true)
```

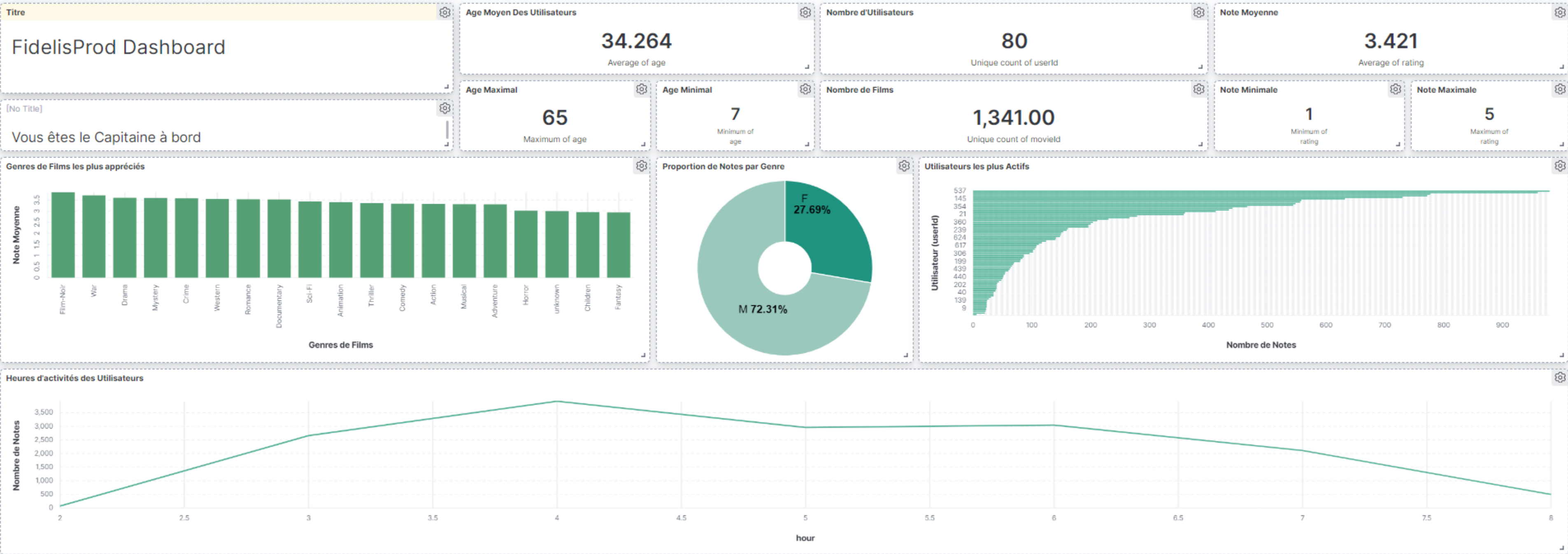

MODELE

Le modèle de recommandation ALS



DATA PRESENTATION

Kibana Visualizations





THANK YOU

YONLI Fidèle