



**dreemhealth**  
Sleep care, made **simple.**

# Predict Gender from brain rhythms

**Seddik AMROUN**



## Objectif

Prédire le sexe d'une personne à partir de son activité cérébrale.



dreemhealth  
Sleep care, made simple.



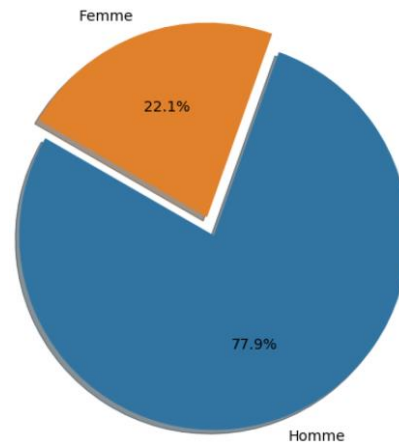
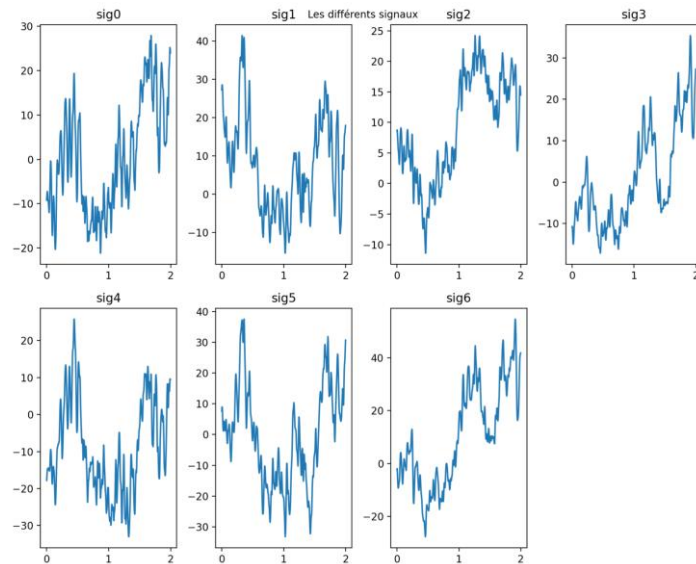
# Dataset

500 points  
2 secondes d'onde  
échantillonné à 250Hz

40  
segments

7 électroencephalogrammes

946 personnes





# Modèle



Signaux EEG  
Tensor (946,40,7,500)

Couche Conv2D

PoolingMax

Conv2D

F

F

F

F

F

F

D

D

D

D

D



Femme



Homme

Input

Couche Conv2D (64)

Couche Conv2D (128)

Couche Conv2D (256)

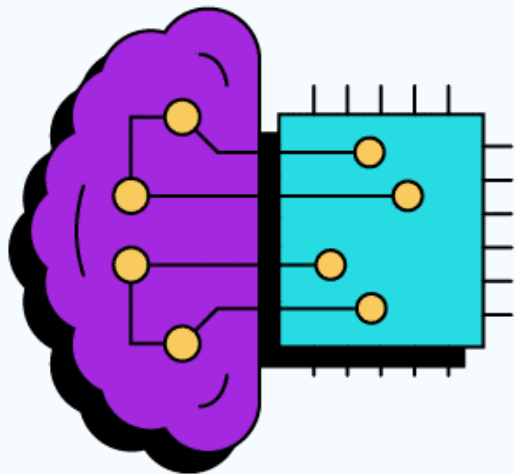
Couche Flatten

Couche Dense

Couche Dense

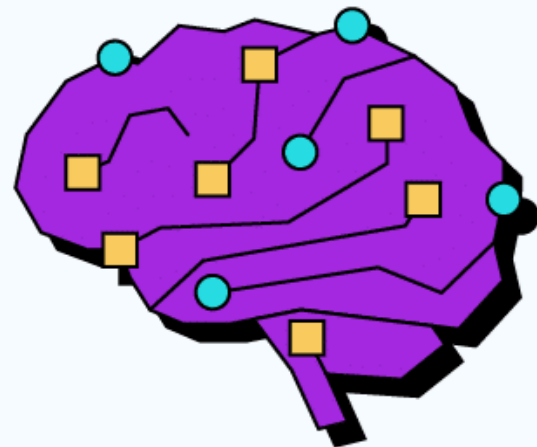


# Approches



**MACHINE LEARNING**

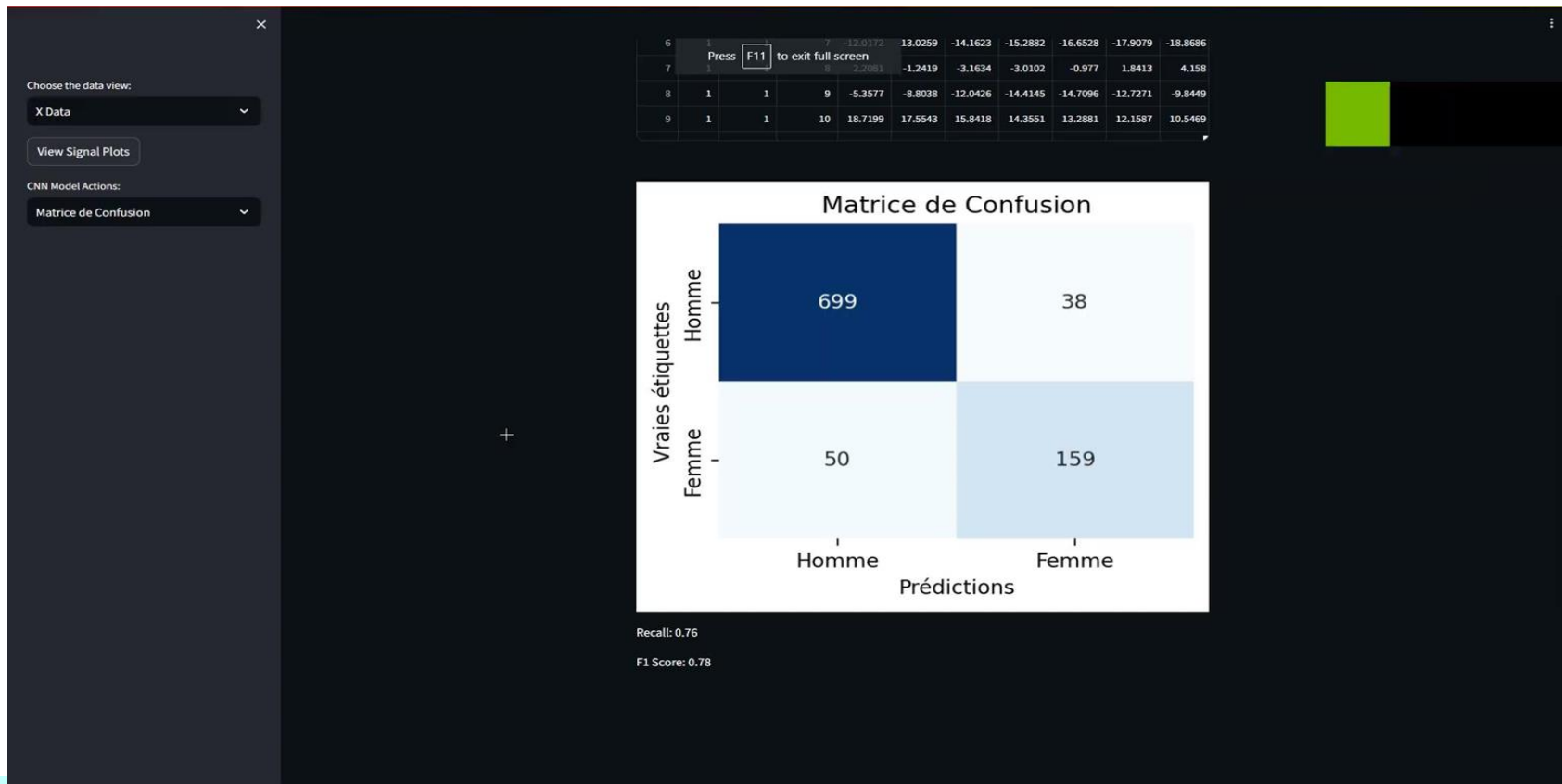
**VS**



**DEEP LEARNING**

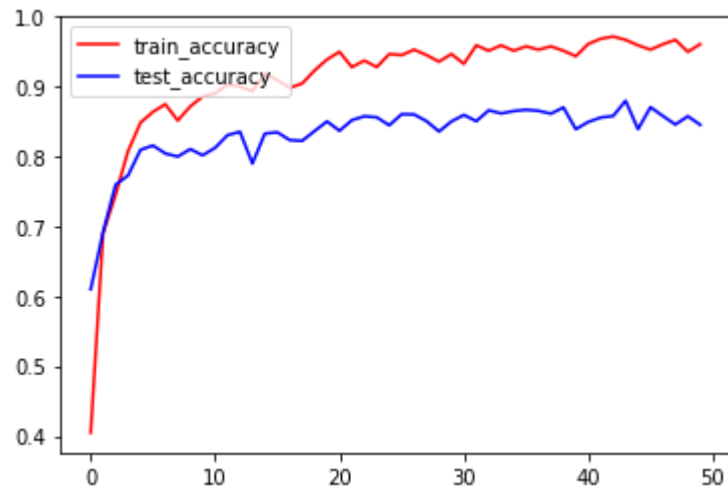


# Dashboard





# Perspectives





## Conclusion

