

Problématique



Rapport de classification - Erreur de type 2





















Race French Bulldog





Rapport de classification - Erreur de type 2







Photo recadrée

Race donnée French Bulldog



Race prédite French Bulldog



Race Chihuaha



Race French Bulldog



Sources bibliographiques







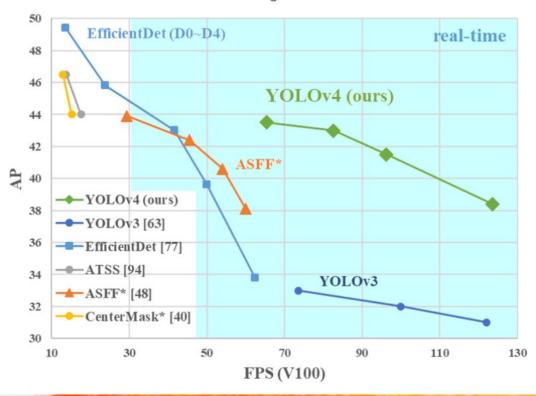




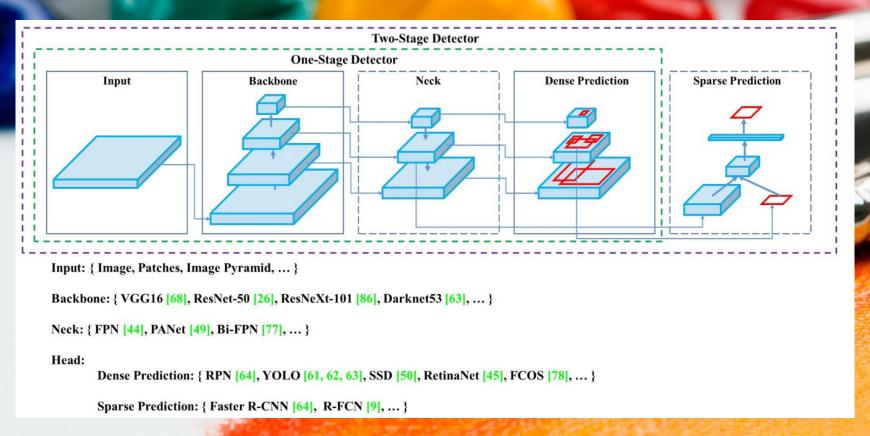


Etat de l'art

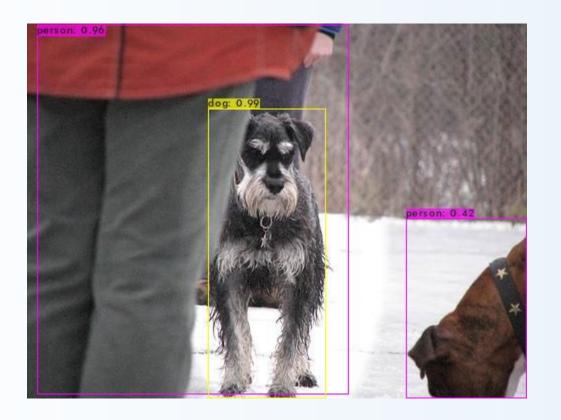
MS COCO Object Detection



YOLO (You Only Look Once) version 4

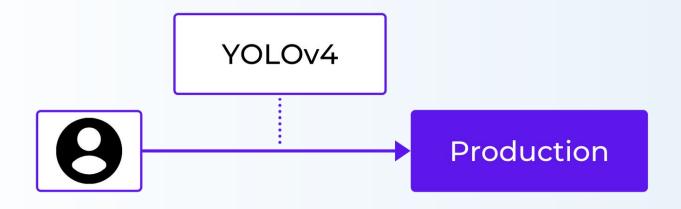


Détection d'objets





Phase 1: Intégration en production





Erreurs induites: Cas n°1





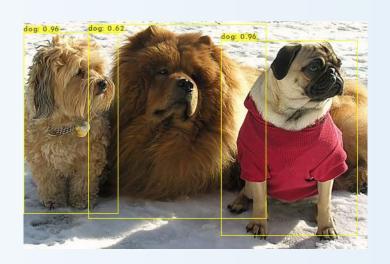




Erreurs induites : Cas n°2

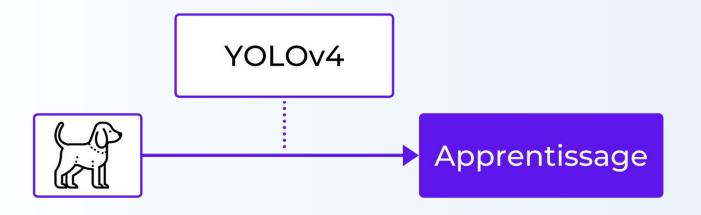






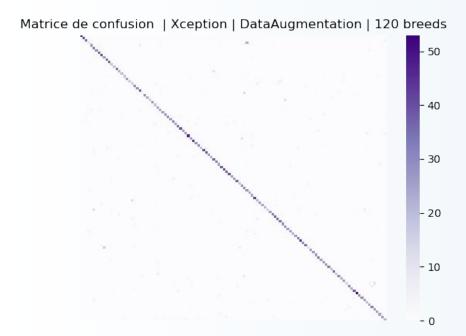


Phase 2: Apprentissage d'un modèle

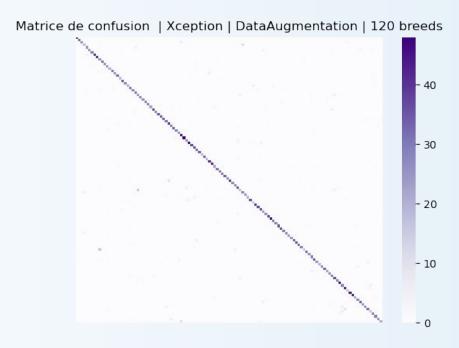




Résultat de l'apprentissage



Photos originales

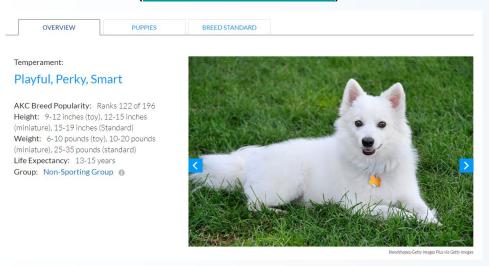


Photos nettoyées



Confusion sur la race Eskimo dog

Eskimo dog (American Kennel Club)

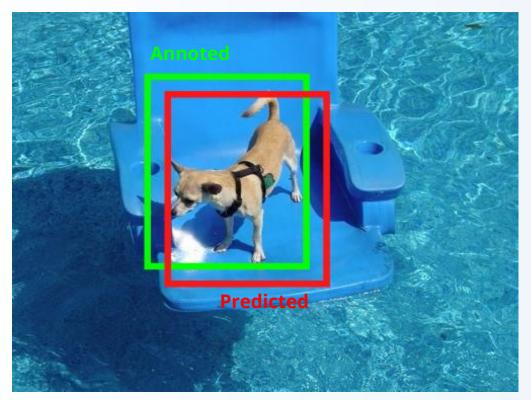


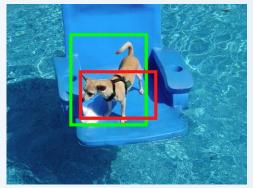
Classe Eskimo dog (Stanford dogs dataset)

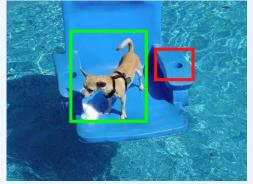




Principes d'évaluation d'un détecteur d'objet







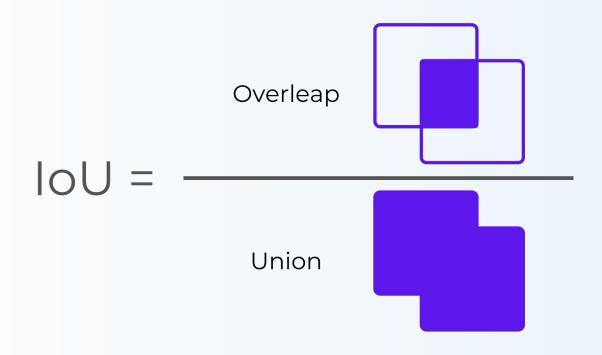


Métriques custom : position et taille

treshold	metric_center	metric_shape	metric_global
0.05	79.0	49.0	48.0
0.1	87.0	75.0	74.0
0.2	90.0	87.0	86.0
0.5	93.0	93.0	92.0
1.0	100.0	100.0	100.0



Métrique IoU - Intersection over Union





Métrique IoU - Intersection over Union

treshold	metric_iou	
0.05	12.0	
0.1	46.0	
0.2	79.0	
0.5	89.0	
1.0	97.0	



