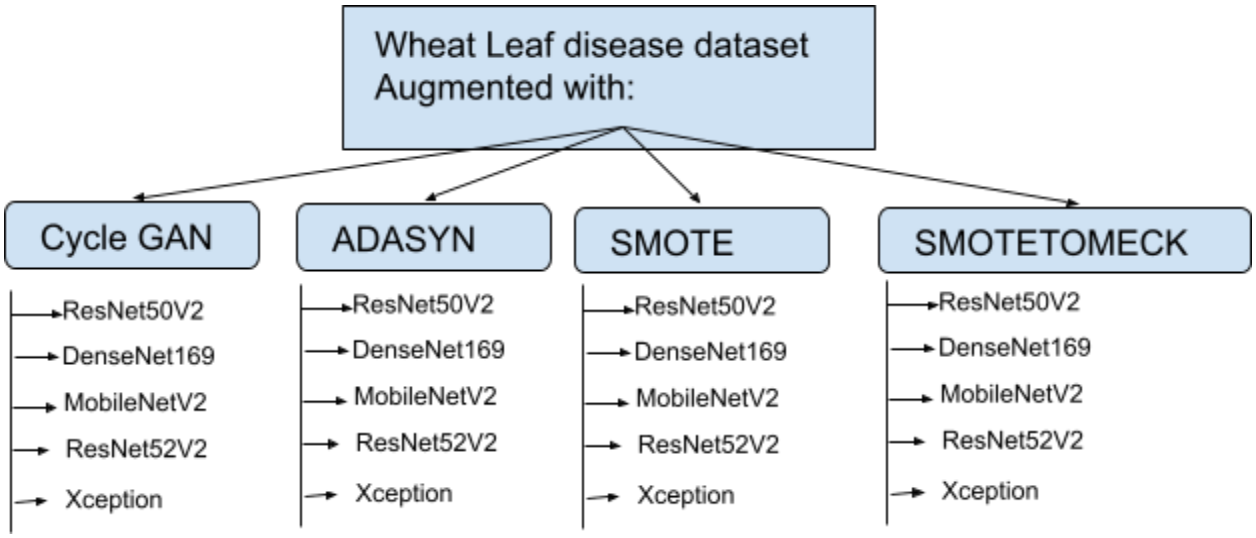

ADASYN:

CNN architecture	Test Accuracy	Confusion Matrix
MobileNetV2	accuracy: 0.9150 - loss: 0.1541	Matrice de confusion : [[15 0 3] [0 12 1] [1 0 30]] Rapport de classification : precision recall f1-score support Healthy 0.94 0.83 0.88 18 septoria 1.00 0.92 0.96 13 stripe_rust 0.88 0.97 0.92 31 accuracy 0.92 62 macro avg 0.94 0.91 0.92 62 weighted avg 0.92 0.92 0.92 62
ResNet50V2	accuracy: 0.9573 - loss: 0.1306	Matrice de confusion : [[17 0 1] [0 12 1] [0 1 30]] Rapport de classification : precision recall f1-score support Healthy 1.00 0.94 0.97 18 septoria 0.92 0.92 0.92 13 stripe_rust 0.94 0.97 0.95 31 accuracy 0.95 62 macro avg 0.95 0.95 0.95 62 weighted avg 0.95 0.95 0.95 62
ResNet52V2	Currently, ResNet50V2 is available, and there isn't a ResNet52V2 model in the official TensorFlow/Keras	

	applications.	
DenseNet121	accuracy: 0.9785 loss: 0.0422	Matrice de confusion : [[18 0 0] [0 11 2] [0 0 31]] Rapport de classification : precision recall f1-score support Healthy 1.00 1.00 1.00 18 septoria 1.00 0.85 0.92 13 stripe_rust 0.94 1.00 0.97 31 accuracy 0.97 62 macro avg 0.98 0.95 0.96 62 weighted avg 0.97 0.97 0.97 62
DenseNet169	accuracy: 0.9577 - loss: 0.0878	Matrice de confusion : [[16 0 2] [0 13 0] [0 0 31]] Rapport de classification : precision recall f1-score support Healthy 1.00 0.89 0.94 18 septoria 1.00 1.00 1.00 13 stripe_rust 0.94 1.00 0.97 31 accuracy 0.97 62 macro avg 0.98 0.96 0.97 62 weighted avg 0.97 0.97 0.97 62
Xception	accuracy: 0.9577 loss: 0.1340	Matrice de confusion : [[17 0 1] [0 13 0] [1 0 30]] Rapport de classification : precision recall f1-score support Healthy 0.94 0.94 0.94 18 septoria 1.00 1.00 1.00 13 stripe_rust 0.97 0.97 0.97 31 accuracy 0.97 62 macro avg 0.97 0.97 0.97 62 weighted avg 0.97 0.97 0.97 62

SMOTE:

CNN architecture	Test Accuracy	Confusion Matrix
MobileNetV2	accuracy: 0.9150 loss: 0.1649	Matrice de confusion : [[15 0 3] [0 12 1] [1 0 30]] Rapport de classification : precision recall f1-score support Healthy 0.94 0.83 0.88 18 septoria 1.00 0.92 0.96 13 stripe_rust 0.88 0.97 0.92 31 accuracy 0.92 62 macro avg 0.94 0.91 0.92 62 weighted avg 0.92 0.92 0.92 62

ResNet50V2	accuracy: 0.9362 loss: 0.0972	Matrice de confusion : [[16 0 2] [0 12 1] [1 0 30]] Rapport de classification : precision recall f1-score support Healthy 0.94 0.89 0.91 18 septoria 1.00 0.92 0.96 13 stripe_rust 0.91 0.97 0.94 31 accuracy 0.94 62 macro avg 0.95 0.93 0.94 62 weighted avg 0.94 0.94 0.94 62
ResNet52V2		
DenseNet121	accuracy: 0.9785 loss: 0.0427	Matrice de confusion : [[18 0 0] [0 11 2] [0 0 31]] Rapport de classification : precision recall f1-score support Healthy 1.00 1.00 1.00 18 septoria 1.00 0.85 0.92 13 stripe_rust 0.94 1.00 0.97 31 accuracy 0.97 62 macro avg 0.98 0.95 0.96 62 weighted avg 0.97 0.97 0.97 62
DenseNet169	accuracy: 0.9577 loss: 0.1091	Matrice de confusion : [[16 0 2] [0 13 0] [0 0 31]] Rapport de classification : precision recall f1-score support Healthy 1.00 0.89 0.94 18 septoria 1.00 1.00 1.00 13 stripe_rust 0.94 1.00 0.97 31 accuracy 0.97 62 macro avg 0.98 0.96 0.97 62 weighted avg 0.97 0.97 0.97 62
Xception	accuracy: 0.9788 loss: 0.1208	Matrice de confusion : [[18 0 0] [0 13 0] [1 0 30]] Rapport de classification : precision recall f1-score support Healthy 0.95 1.00 0.97 18 septoria 1.00 1.00 1.00 13 stripe_rust 1.00 0.97 0.98 31 accuracy 0.98 62 macro avg 0.98 0.99 0.99 62 weighted avg 0.98 0.98 0.98 62

SMOTETomek:

CNN architecture	Test Accuracy	Confusion Matrix
MobileNetV2	accuracy: 0.9362 loss: 0.1194	Matrice de confusion : [[16 0 2] [0 12 1] [1 0 30]] Rapport de classification : precision recall f1-score support Healthy 0.94 0.89 0.91 18 septoria 1.00 0.92 0.96 13 stripe_rust 0.91 0.97 0.94 31 accuracy 0.94 62 macro avg 0.95 0.93 0.94 62 weighted avg 0.94 0.94 0.94 62

ResNet50V2	accuracy: 0.9362 - loss: 0.1118	Matrice de confusion : [[16 0 2] [0 12 1] [1 0 30]] Rapport de classification : precision recall f1-score support Healthy 0.94 0.89 0.91 18 septoria 1.00 0.92 0.96 13 stripe_rust 0.91 0.97 0.94 31 accuracy 0.94 62 macro avg 0.95 0.93 0.94 62 weighted avg 0.94 0.94 0.94 62
ResNet52V2		
DenseNet121	accuracy: 0.9892 - loss: 0.0630	Matrice de confusion : [[18 0 0] [0 12 1] [0 0 31]] Rapport de classification : precision recall f1-score support Healthy 1.00 1.00 1.00 18 septoria 1.00 0.92 0.96 13 stripe_rust 0.97 1.00 0.98 31 accuracy 0.98 62 macro avg 0.99 0.97 0.98 62 weighted avg 0.98 0.98 0.98 62
DenseNet169	accuracy: 0.9577 - loss: 0.1083	Matrice de confusion : [[16 0 2] [0 13 0] [0 0 31]] Rapport de classification : precision recall f1-score support Healthy 1.00 0.89 0.94 18 septoria 1.00 1.00 1.00 13 stripe_rust 0.94 1.00 0.97 31 accuracy 0.97 62 macro avg 0.98 0.96 0.97 62 weighted avg 0.97 0.97 0.97 62
Xception	accuracy: 0.9788 loss: 0.1260	Matrice de confusion : [[18 0 0] [0 13 0] [1 0 30]] Rapport de classification : precision recall f1-score support Healthy 0.95 1.00 0.97 18 septoria 1.00 1.00 1.00 13 stripe_rust 1.00 0.97 0.98 31 accuracy 0.98 62 macro avg 0.98 0.99 0.99 62 weighted avg 0.98 0.98 0.98 62

CycleGAN:

CNN architecture	Test Accuracy	Confusion Matrix
MobileNetV2		
ResNet50V2		
ResNet52V2		
DenseNet121		
DenseNet169		

Xception		