

Task 1	
	Uploading DS
	Data Prep
	Resnet-50 Pytorch Implementation
	Train using T4 Gpu Colab
	Report the first result - No HP tuning
	HP Tuning - Grid Search
	Report the second result - With HP tuning
	Pretrained model testing on our data
	Report the result - Pretrained Model
	Pretrained Model fine-tuning using our data
	Report the result - FT model
	Choosing the best one and apply t-SNE for DR
	Visualize using class labels
	Complete report about all stages and results
Task 2	
	Three Encoders from TASK 1 - From Scratch   Pretrained Model   FT Model) export
	Apply all the encoders to DataSet 2

	Apply all the encoders to DataSet 3
	<b>Analyze and Visualize the extracted Features - t-SNE</b>
	T1-Encoder on Dataset2
	T1-Encoder on Dataset3
	Pretrained-Encoder on Dataset2
	Pretrained-Encoder on Dataset3
	FT-Encoder on Dataset2
	FT-Encoder on Dataset3
	K-NN for Classification
	RF or SVM for Classification
	Confusion Matrix - F1 - Acc - Precision - Recall
	Confusion Matrix - F1 - Acc - Precision - Recall