



**CSE366: Artificial Intelligence**

**task-4**

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## Compare result between pre-trained and CNN Model

Table

Model	Train accuracy	Validation accuracy	Test accuracy	precision(macro)	Recall(macro)	F1-score(macro)	performance
VGG	—	0.9554	0.9292	—	-	-	Balanced performer ,good AUC(0.9692)
MobileNetV2	0.9943	0.9196	0.9381	—	—	—	Fast and lightweight model
Resnet50	0.9847	0.9866	0.9737	—	—	—	Highest accuracy among pre-trained model
Custom CNN	—	—	0.99	0.99	0.99	0.99	Best performing model overall
Enhanced Model(CBAM)	—	—	0.96	0.96	0.96	0.96	Better than VGG & MobilNetV2,close to Resnet50