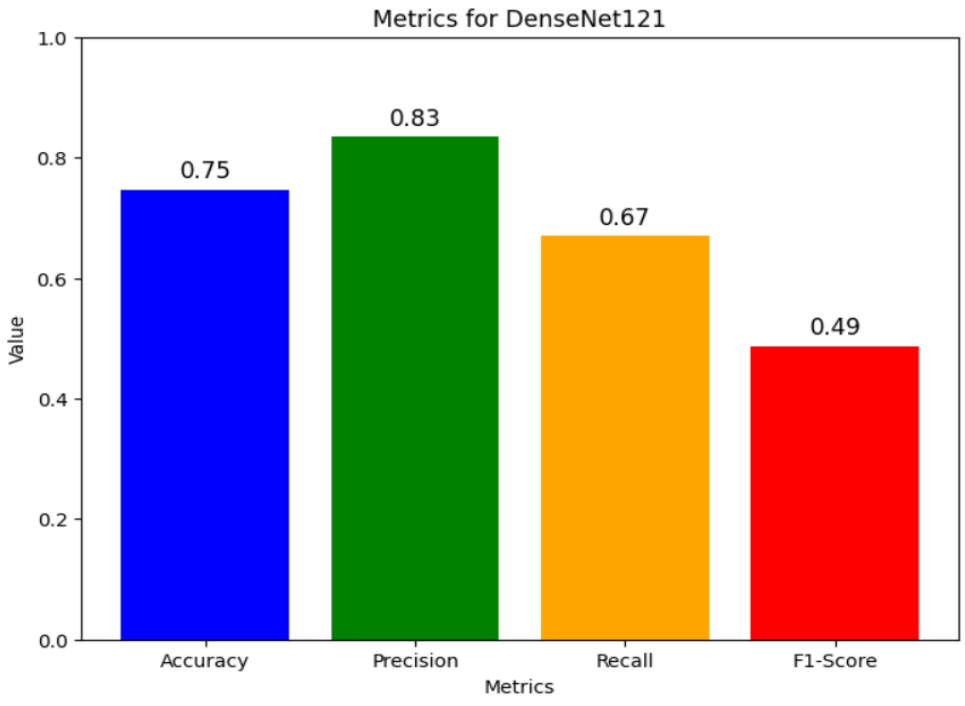
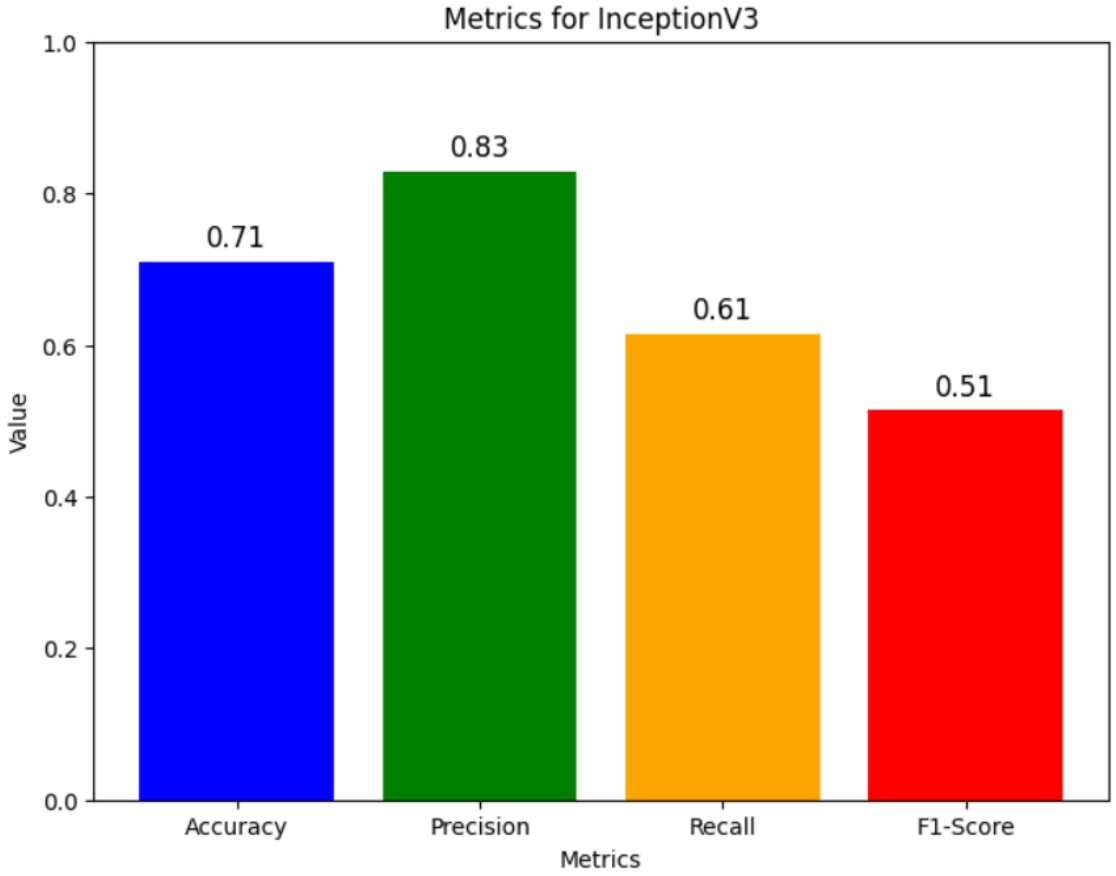
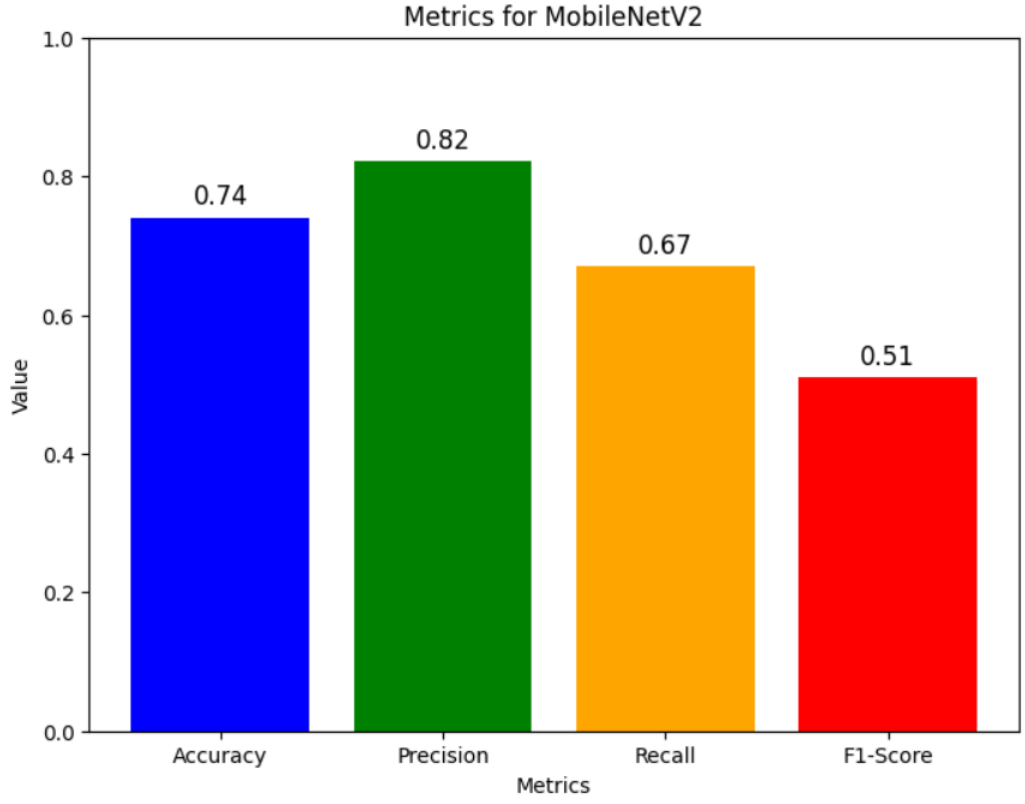
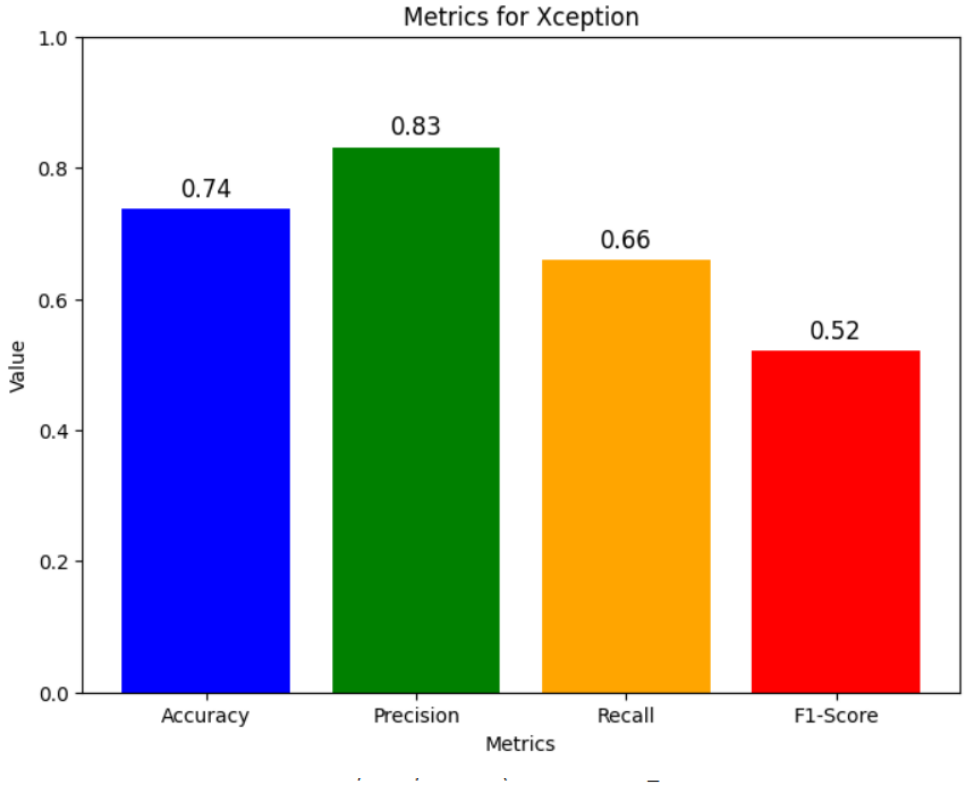
VGG16,
ResNet50,
DenseNet121,
InceptionV3,
EfficientNetB0,
MobileNetV2,
Xception,
NASNetMobile,

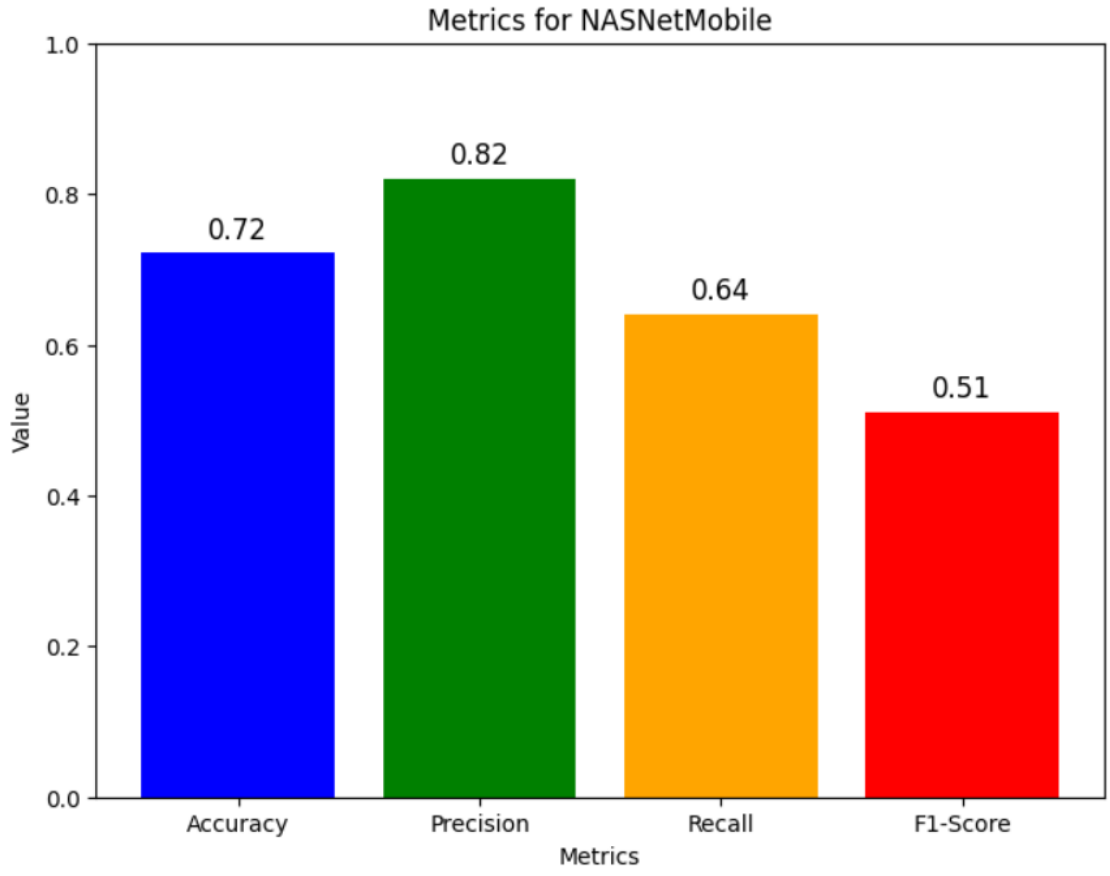
1. The final dataset consists of 10015 dermatoscopic images which can serve as a training set for academic machine learning purposes. Cases include a representative collection of all important diagnostic categories in the realm of pigmented lesions: Actinic keratoses and intraepithelial carcinoma / Bowen's disease (akiec), basal cell carcinoma (bcc), benign keratosis-like lesions (solar lentigines / seborrheic keratoses and lichen-planus like keratoses, bkl), dermatofibroma (df), melanoma (mel), melanocytic nevi (nv) and vascular lesions (angiomas, angiokeratomas, pyogenic granulomas and hemorrhage, vasc).

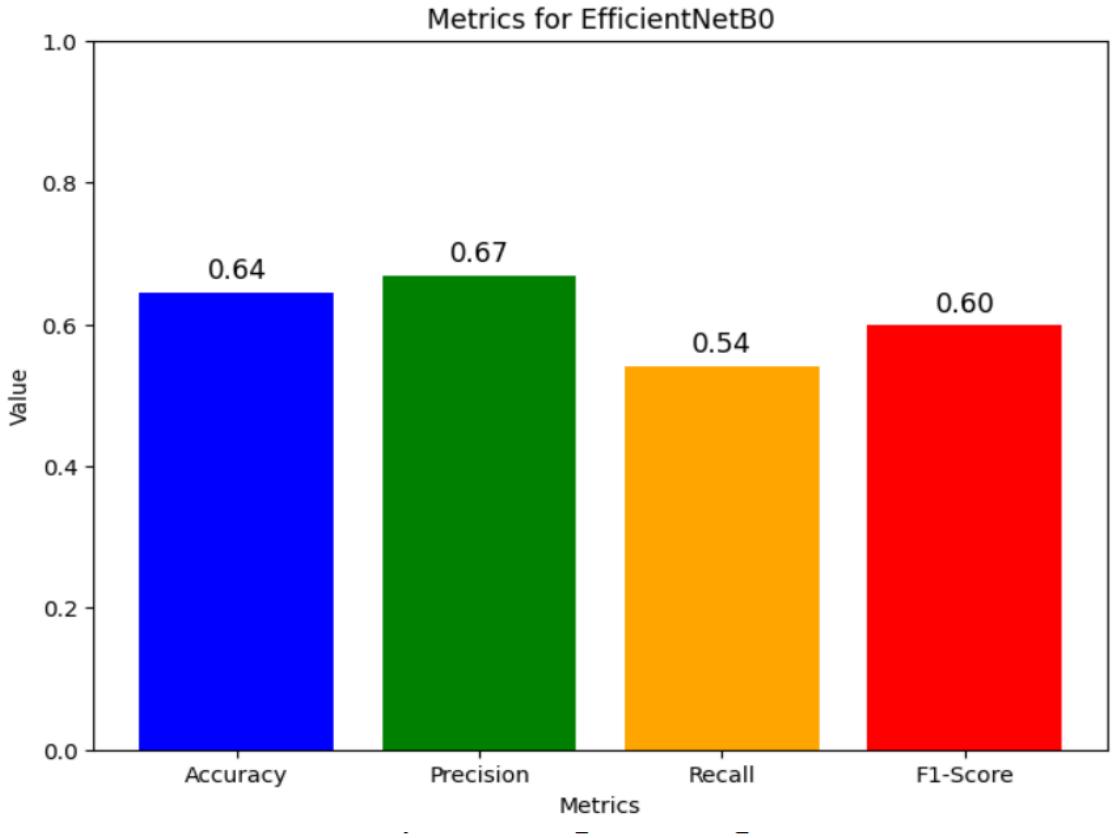


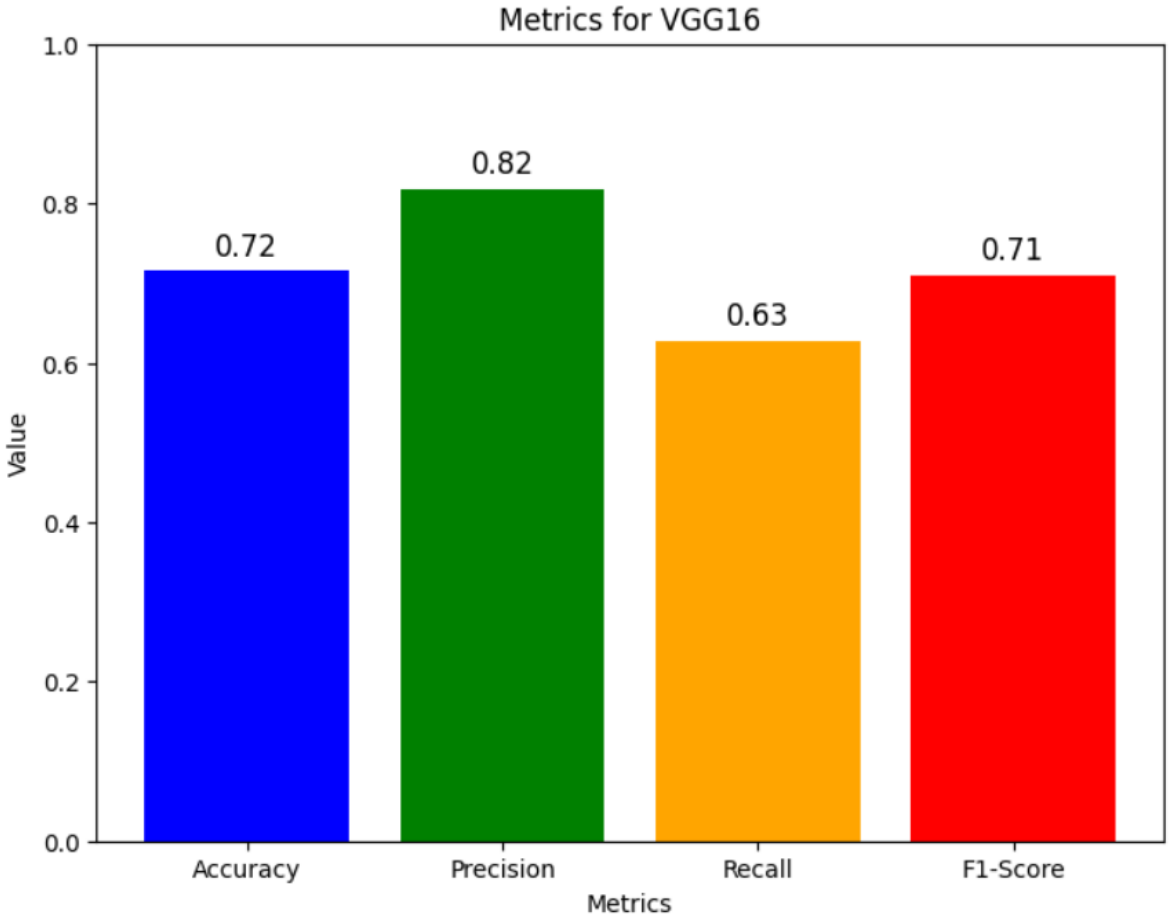

Metrics for InceptionV3
1.0
0.8
0.6
0.4
0.2
0.0
Value
0.71
0.83
0.61
0.51
Accuracy
Precision
Recall
F1-Score
Metrics

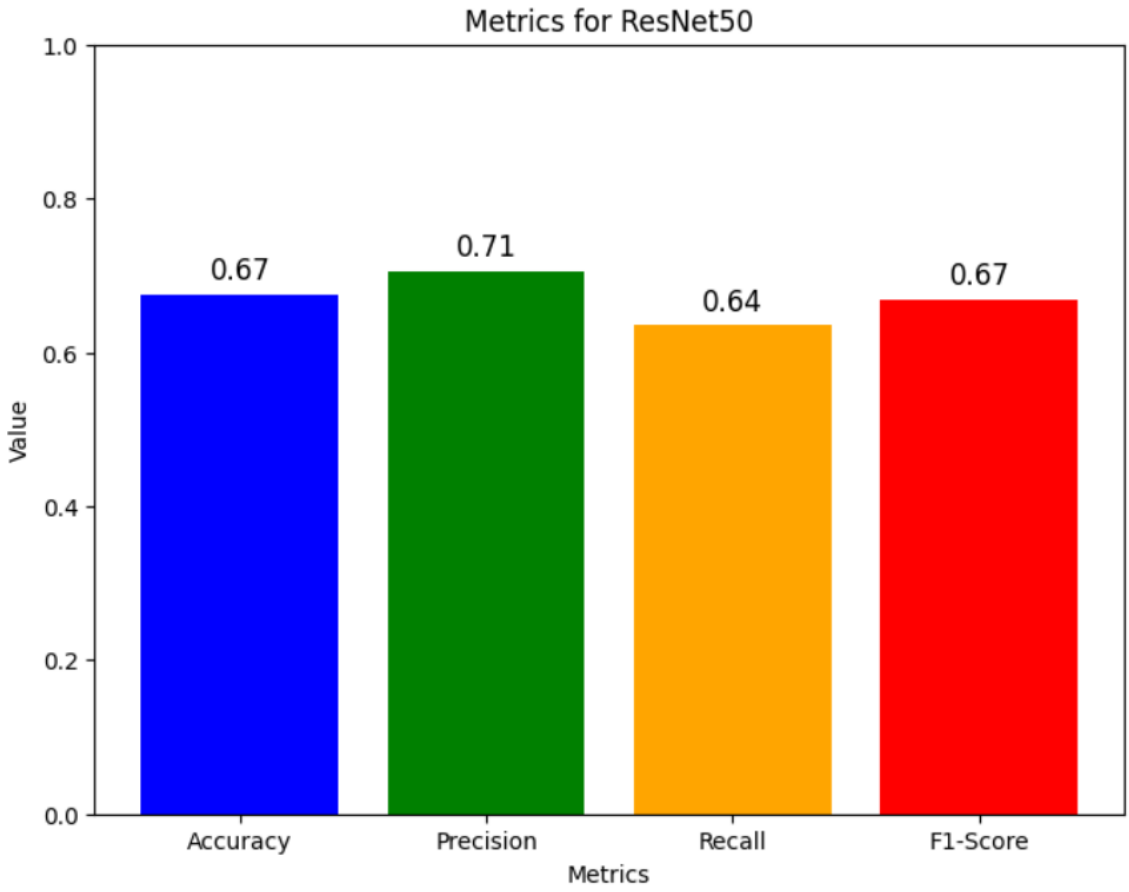

Metrics for MobileNetV2
1.0
0.8
0.6
0.4
0.2
0.0
Value
0.74
0.82
0.67
0.51
Accuracy
Precision
Recall
F1-Score
Metrics


Metrics for Xception
1.0
0.8
0.6
0.4
0.2
0.0
Value
0.74
0.83
0.66
0.52
Accuracy
Precision
Recall
F1-Score
Metrics


Metrics for NASNetMobile
1.0
0.8
0.6
0.4
0.2
0.0
Value
0.72
0.82
0.64
0.51
Accuracy
Precision
Recall
F1-Score
Metrics


Metrics for EfficientNetB0
1.0
0.8
0.6
0.4
0.2
0.0
Value
0.64
0.67
0.54
0.60
Accuracy
Precision
Recall
F1-Score
Metrics

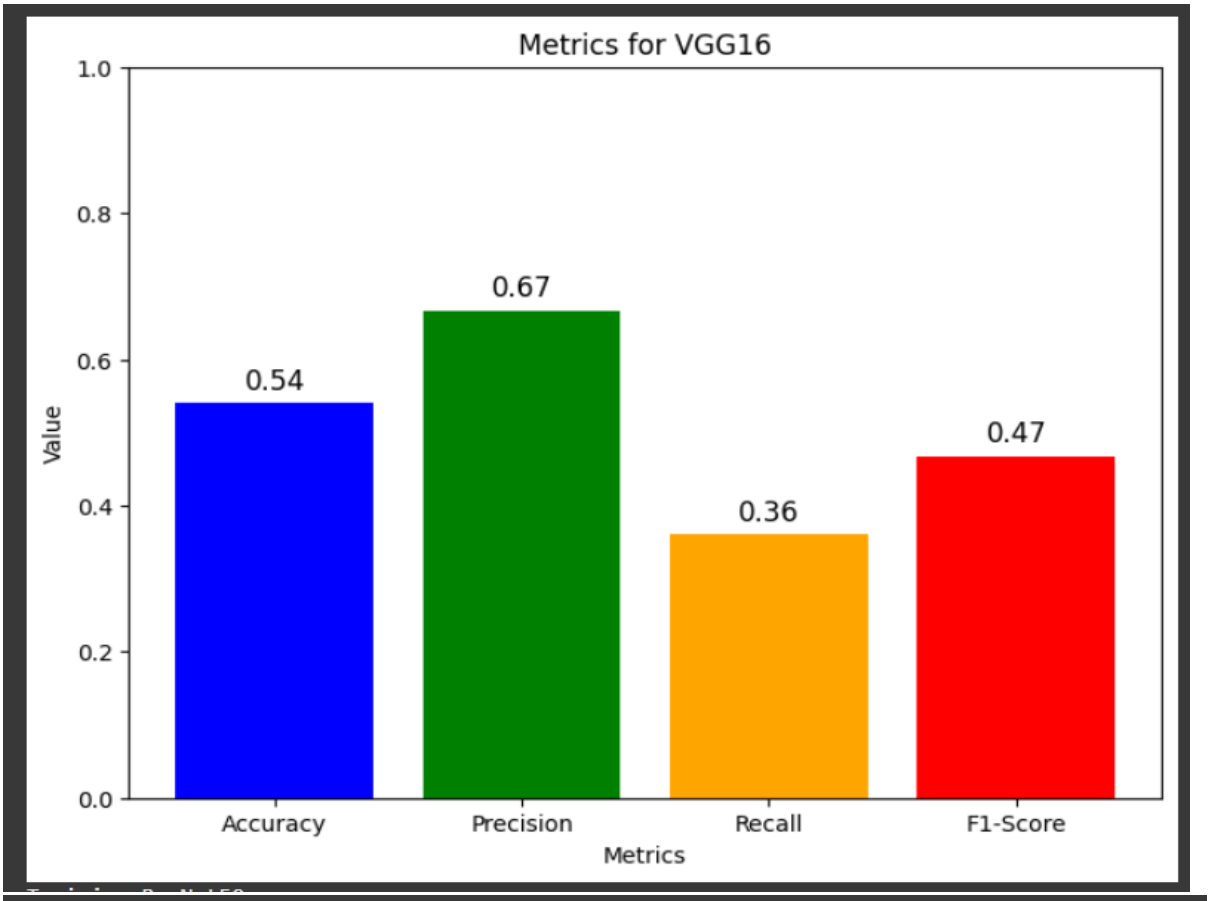

Metrics for VGG16
1.0
0.8
0.6
0.4
0.2
0.0
Value
0.72
0.82
0.63
0.71
Accuracy
Precision
Recall
F1-Score
Metrics

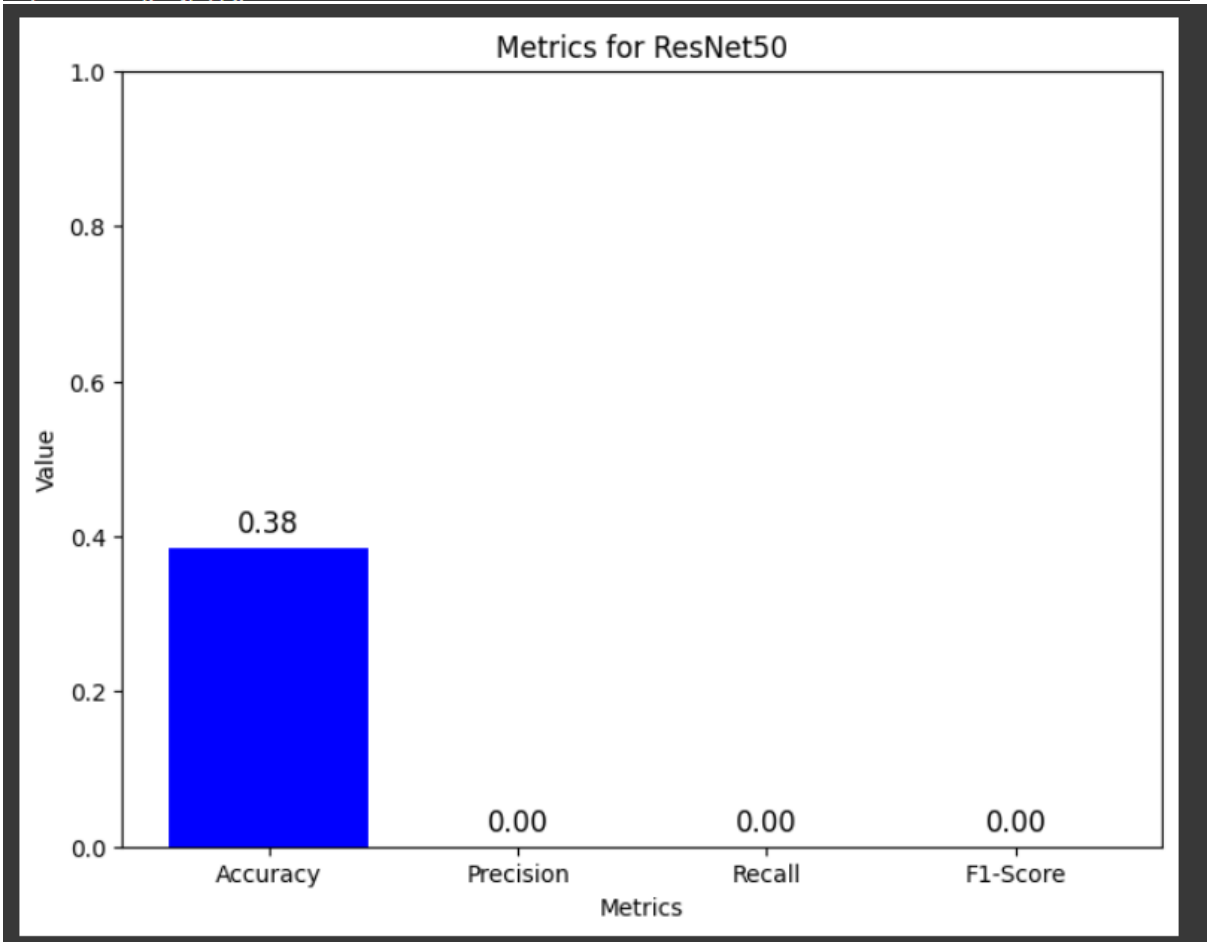


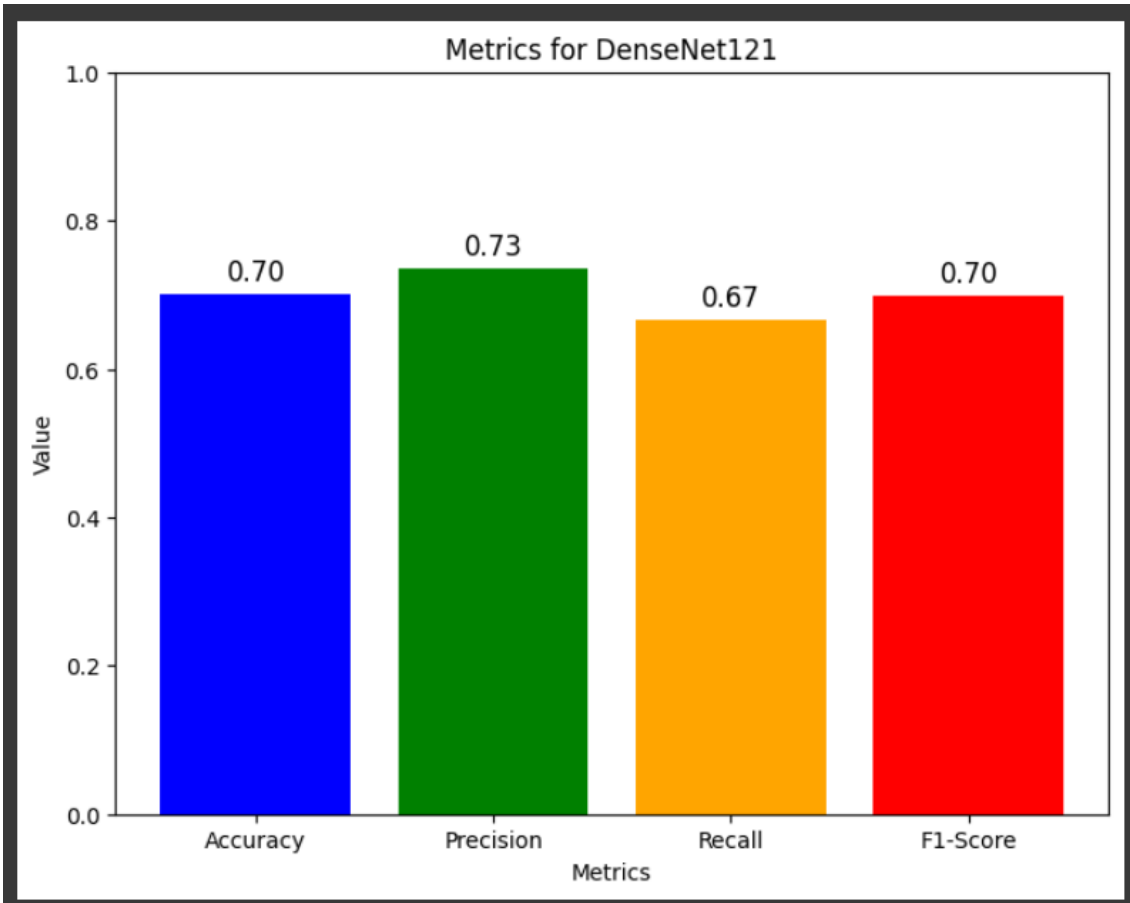
Dataset 2: Light Field Image Dataset of Skin Lesions

The SKINL2 dataset comprises a total of 247 light fields acquired under similar conditions. The images were classified using eight categories, according to the type of skin lesion/ICD code:

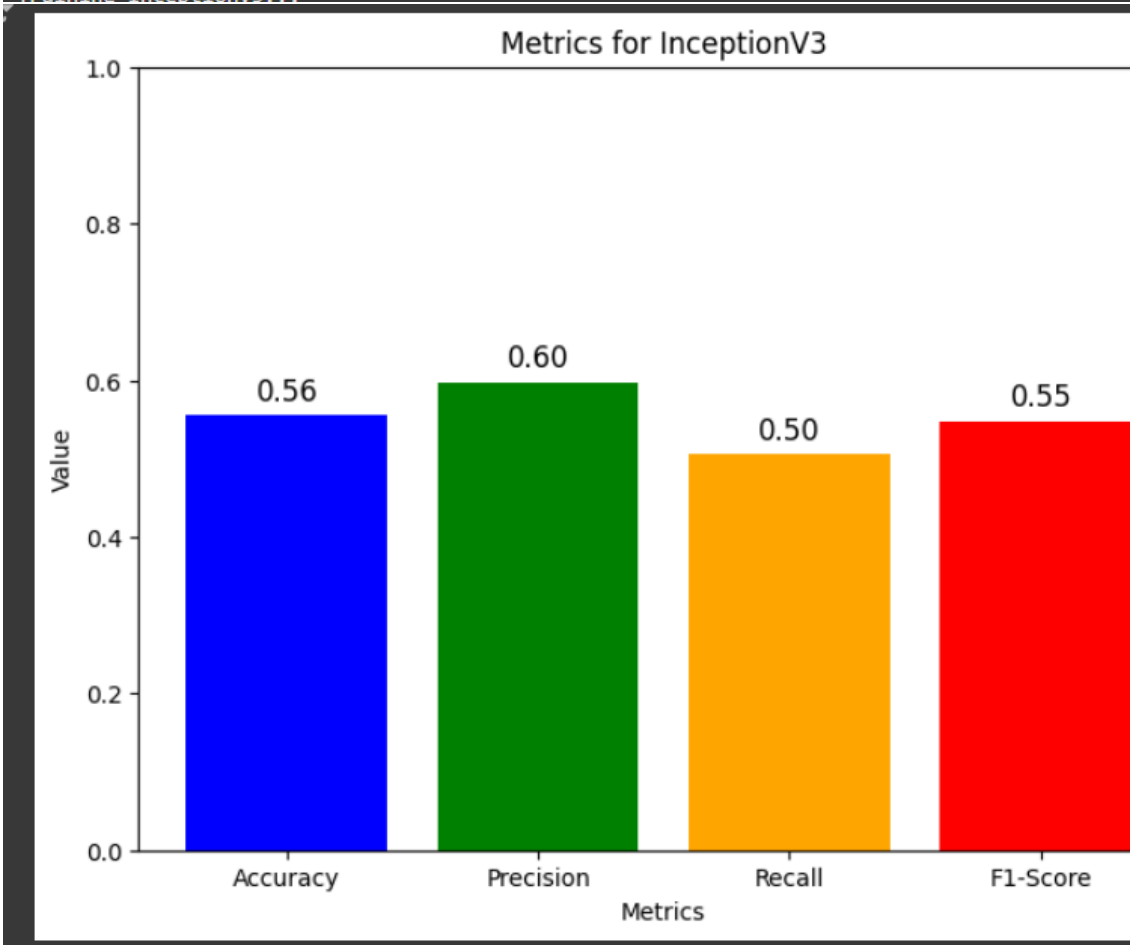
- Melanoma / C43
- Melanocytic Nevus / D22
- Basal Cell Carcinoma / D04
- Seborrheic Keratosis / L82
- Dermatofibroma / D23s

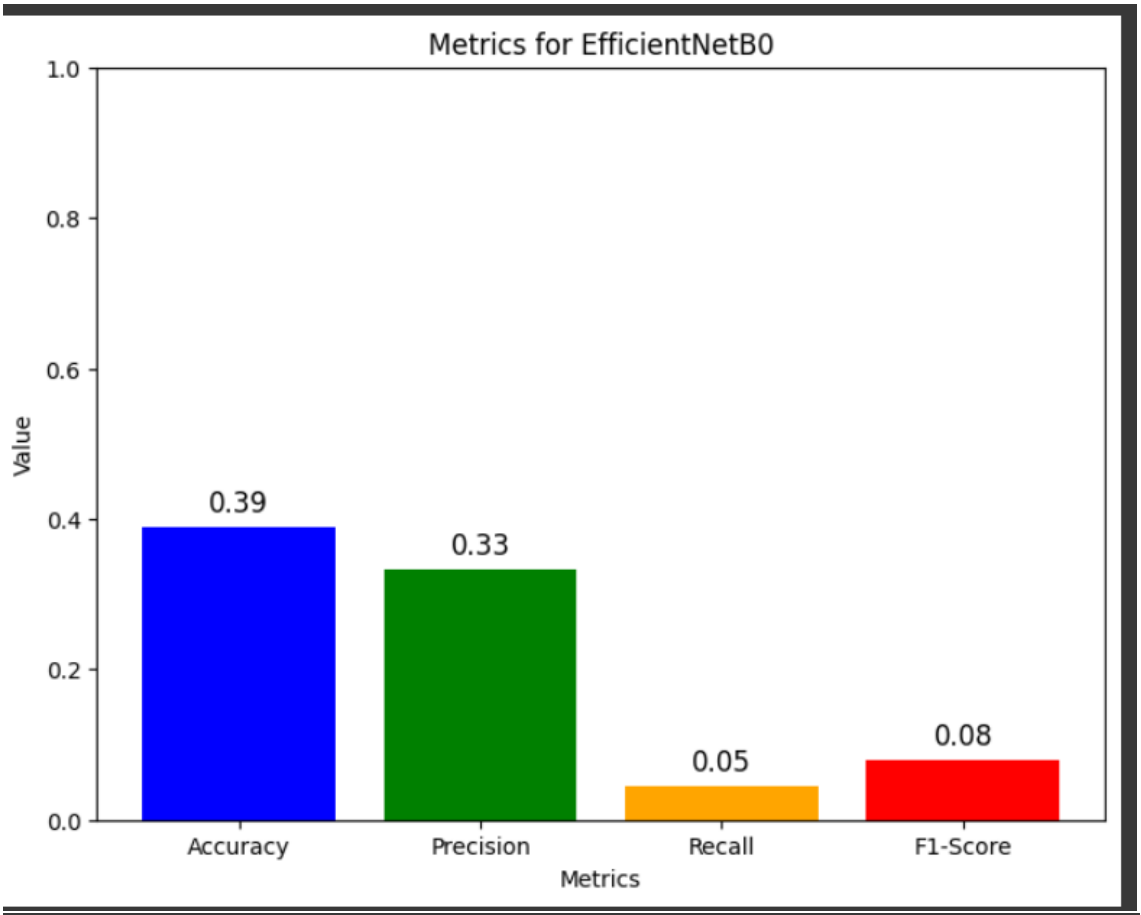

Metrics for VGG16
1.0
0.8
0.6
0.4
0.2
0.0
Value
0.54
0.67
0.36
0.47
Accuracy
Precision
Recall
F1-Score
Metrics

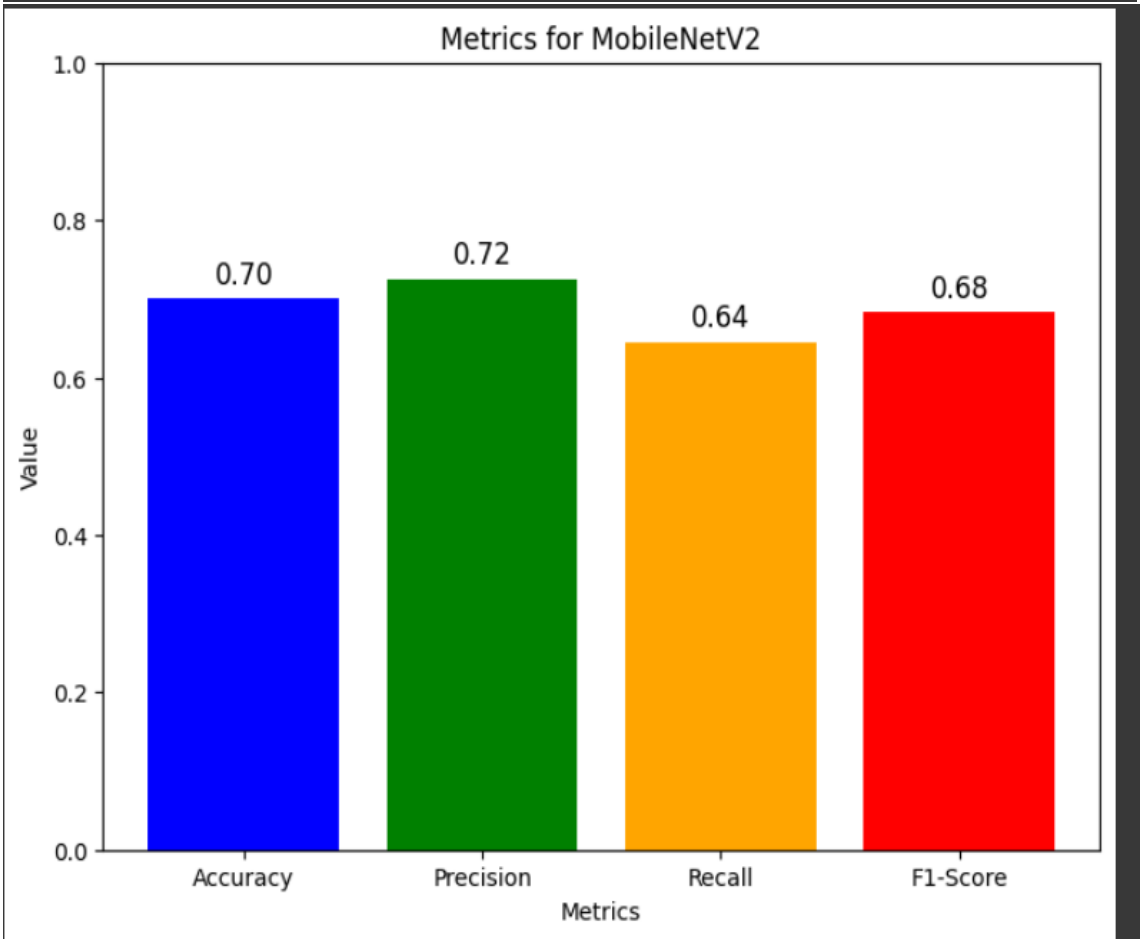

Metrics for ResNet50
1.0
0.8
0.6
0.4
0.2
0.0
Value
0.38
0.00
0.00
0.00
Accuracy
Precision
Recall
F1-Score
Metrics

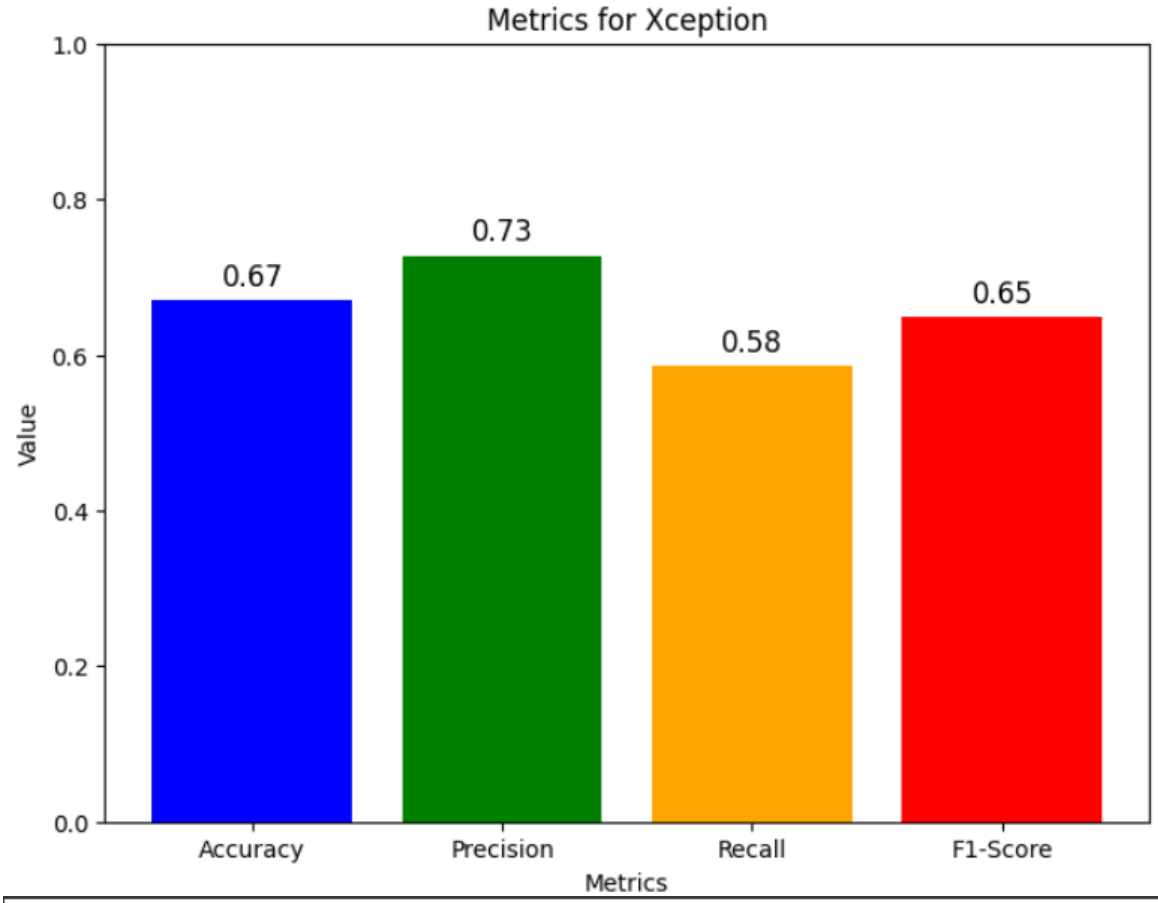


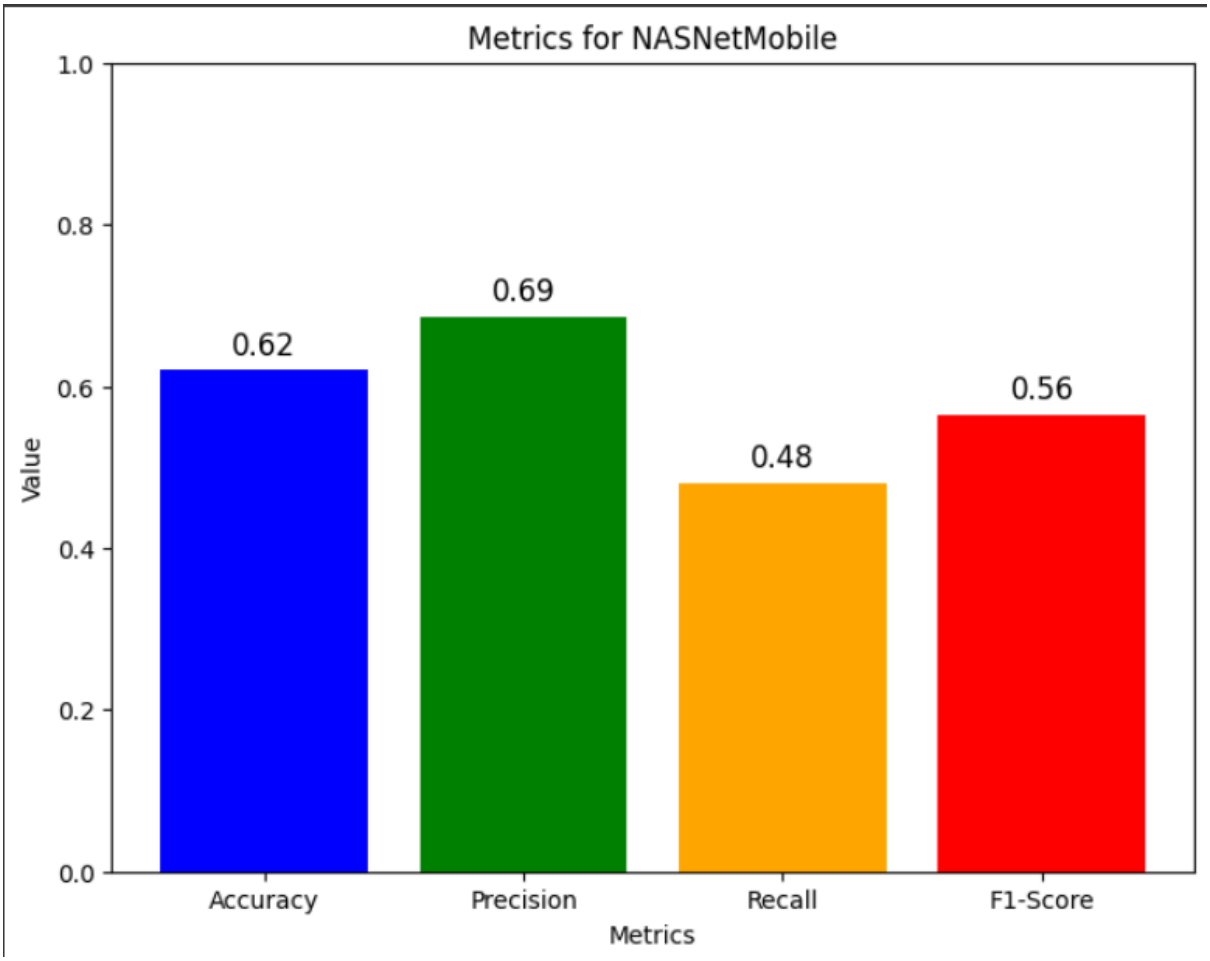
Training InceptionV3...




Metrics for EfficientNetB0
1.0
0.8
0.6
0.4
0.2
0.0
Value
0.39
0.33
0.05
0.08
Accuracy
Precision
Recall
F1-Score
Metrics


Metrics for MobileNetV2
1.0
0.8
0.6
0.4
0.2
0.0
Value
0.70
0.72
0.64
0.68
Accuracy
Precision
Recall
F1-Score
Metrics


Metrics for Xception
1.0
0.8
0.6
0.4
0.2
0.0
Value
0.67
0.73
0.58
0.65
Accuracy
Precision
Recall
F1-Score
Metrics

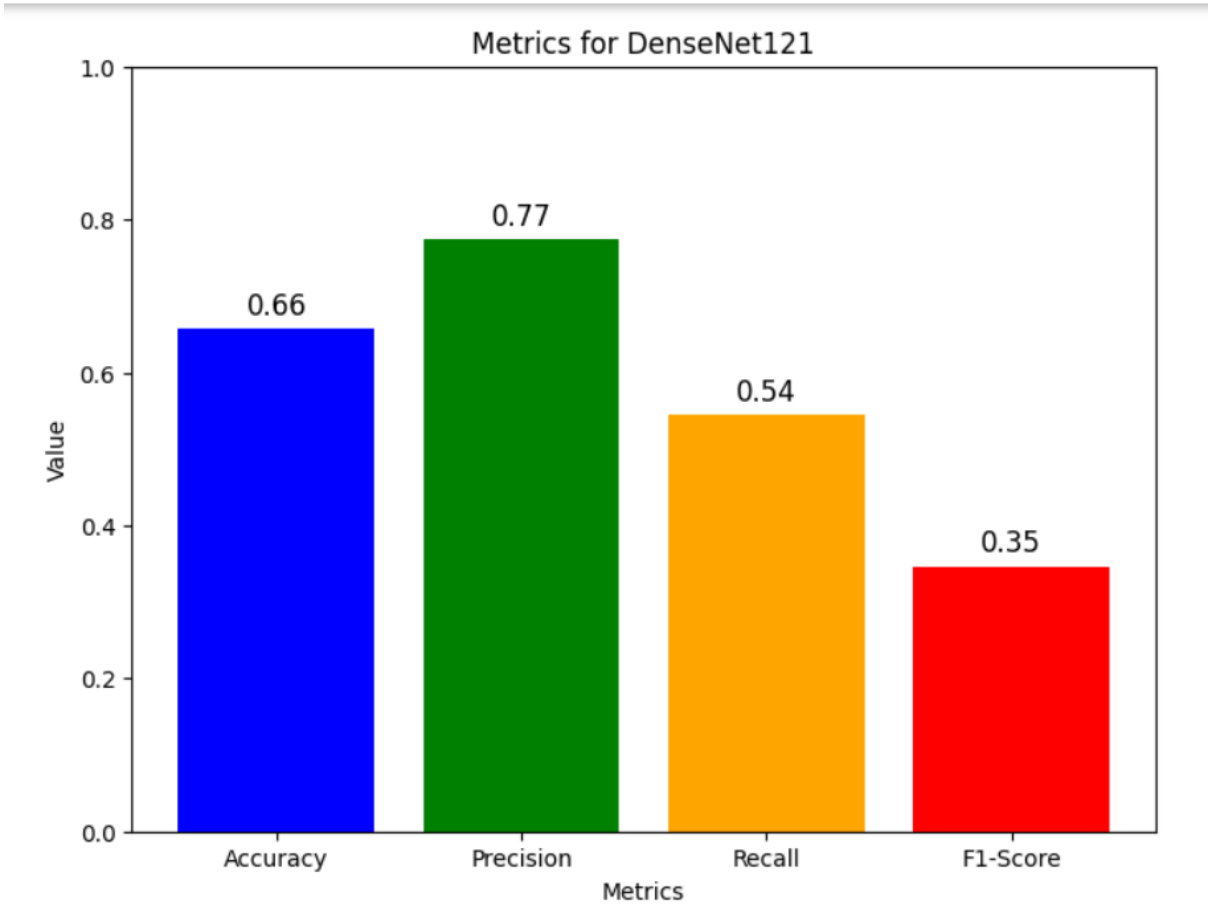

Metrics for NASNetMobile
1.0
0.8
0.6
0.4
0.2
0.0
Value
0.62
0.69
0.48
0.56
Accuracy
Precision
Recall
F1-Score
Metrics

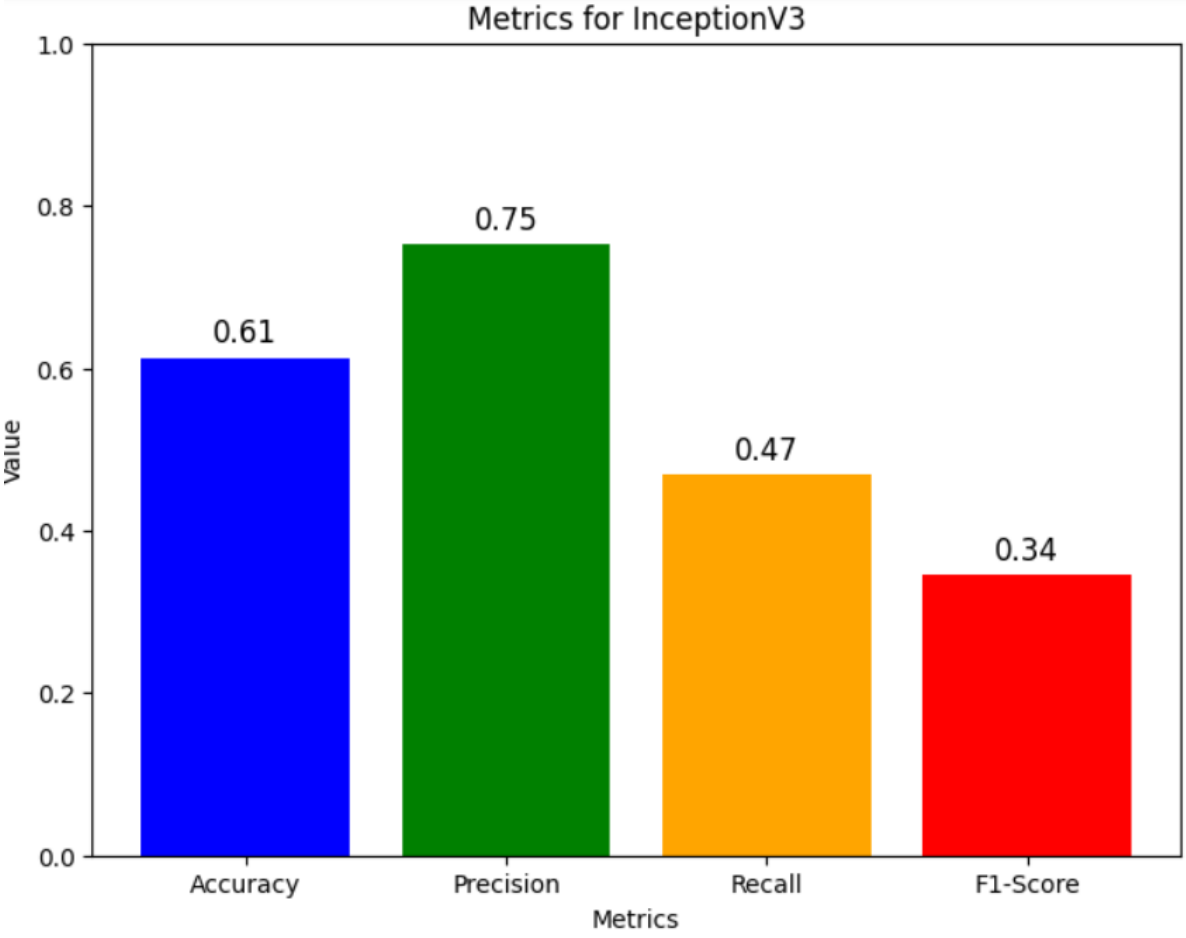
Dataset : Isic 2019

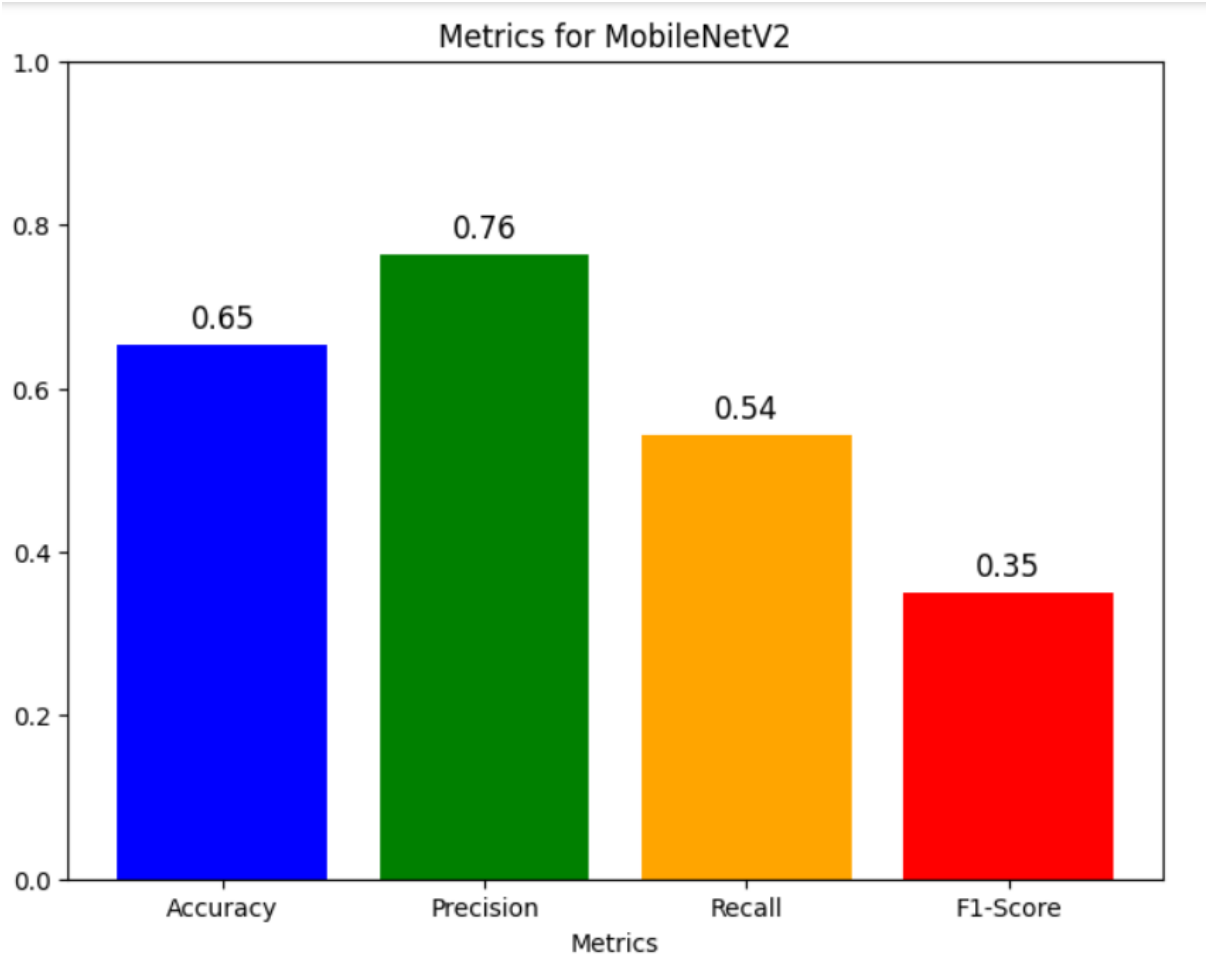
Skin cancer is the most common cancer globally, with melanoma being the most deadly form. Dermoscopy is a skin imaging modality that has demonstrated improvement for diagnosis of skin cancer compared to unaided visual inspection. However, clinicians should receive adequate training for those improvements to be realized. In order to make expertise more widely available, the International Skin Imaging Collaboration (ISIC) has developed the ISIC Archive, an international repository of dermoscopic images, for both the purposes of clinical training, and for supporting technical research toward automated algorithmic analysis by hosting the ISIC Challenges.

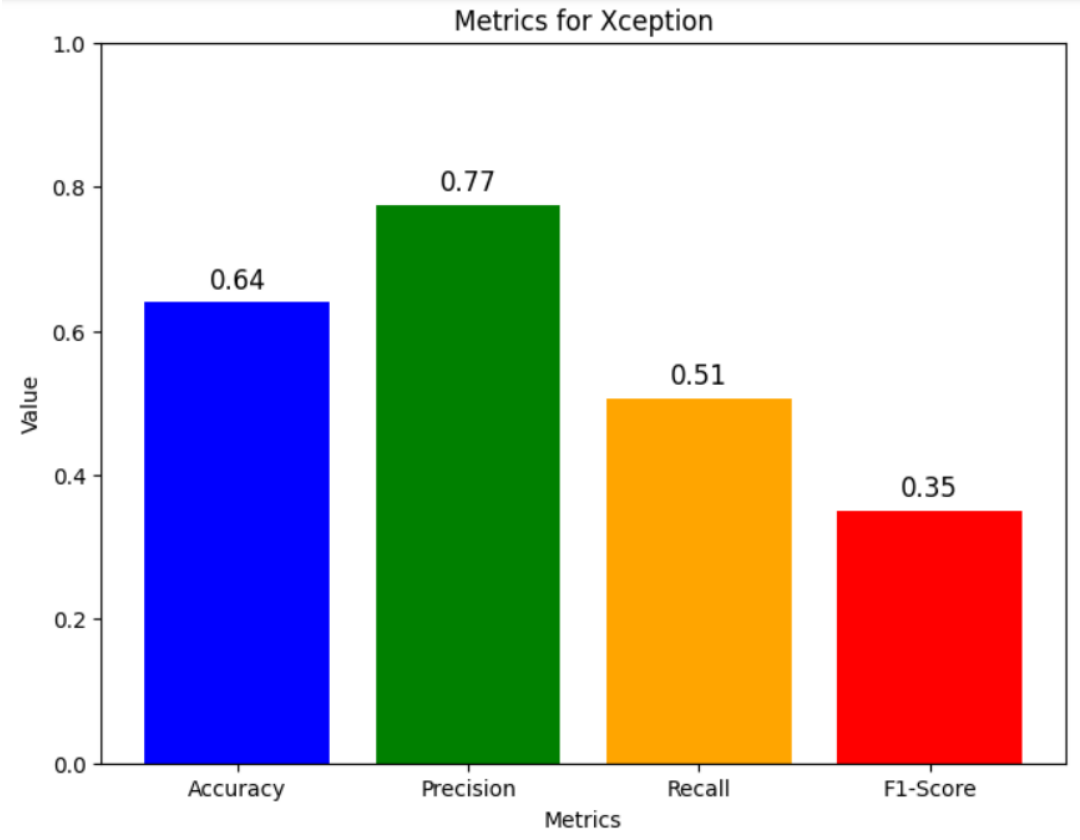
25,331 images are available for training across 8 different categories:

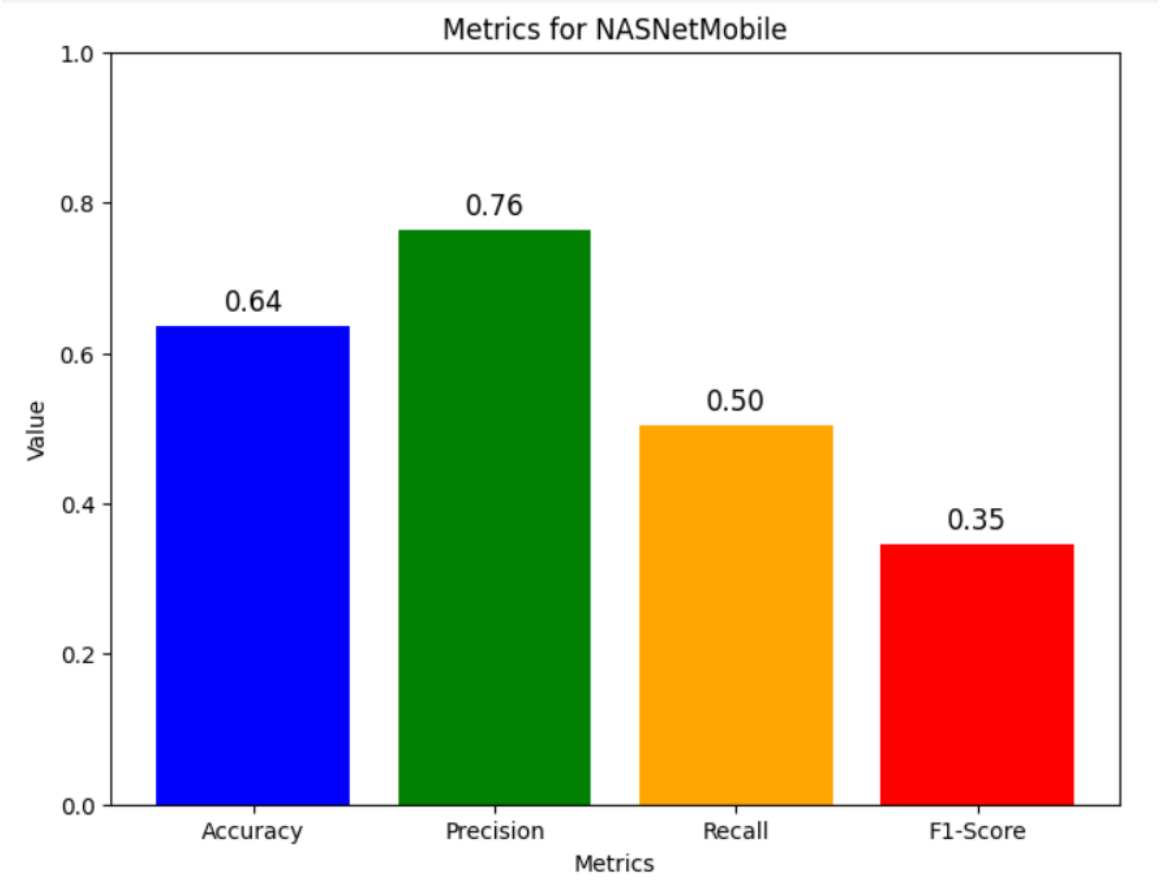
1. Melanoma
2. Melanocytic nevus
3. Basal cell carcinoma
4. Actinic keratosis
5. Benign keratosis (solar lentigo / seborrheic keratosis / lichen planus-like keratosis)
6. Dermatofibroma
7. Vascular lesion
8. Squamous cell carcinoma
9. Dataset 3: HAM10000 hair removal

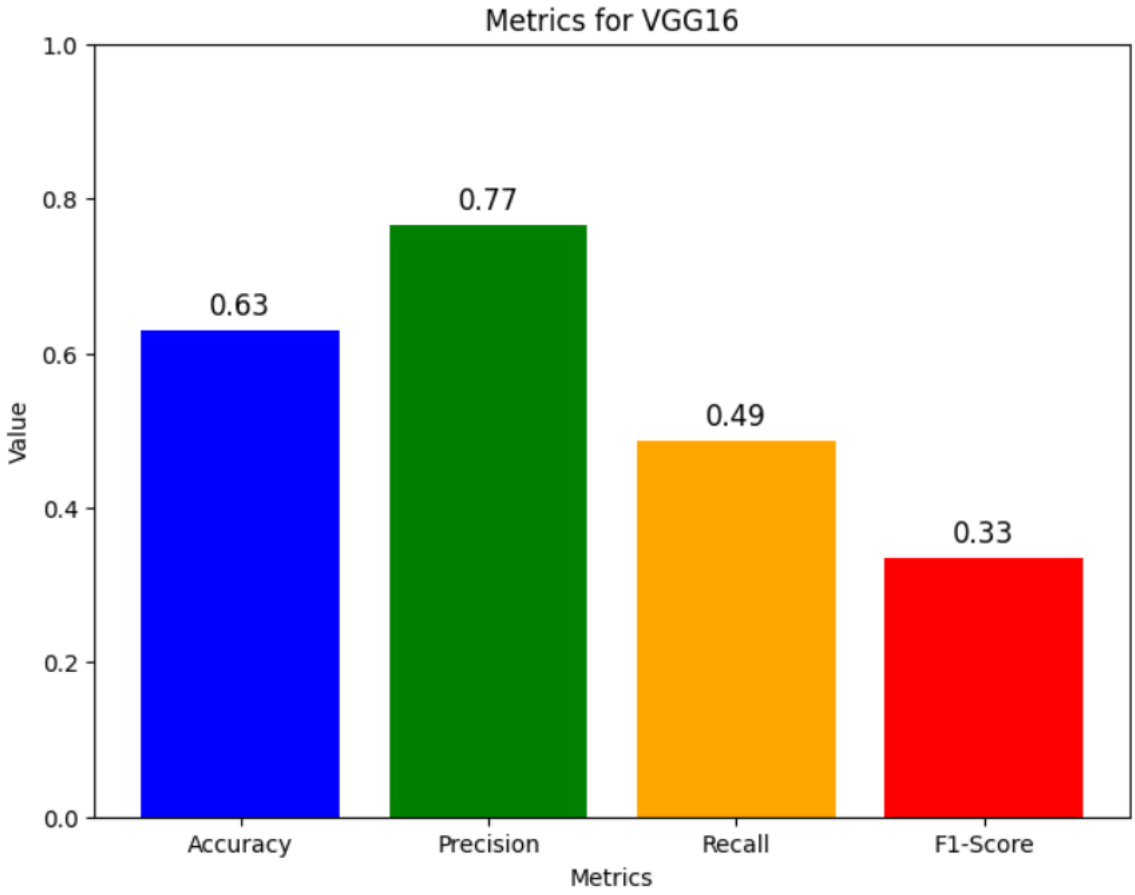

Metrics for DenseNet121
1.0
0.8
0.6
0.4
0.2
0.0
Value
0.66
0.77
0.54
0.35
Accuracy
Precision
Recall
F1-Score
Metrics


Metrics for InceptionV3
1.0
0.8
0.6
0.4
0.2
0.0
Value
0.61
0.75
0.47
0.34
Accuracy
Precision
Recall
F1-Score
Metrics

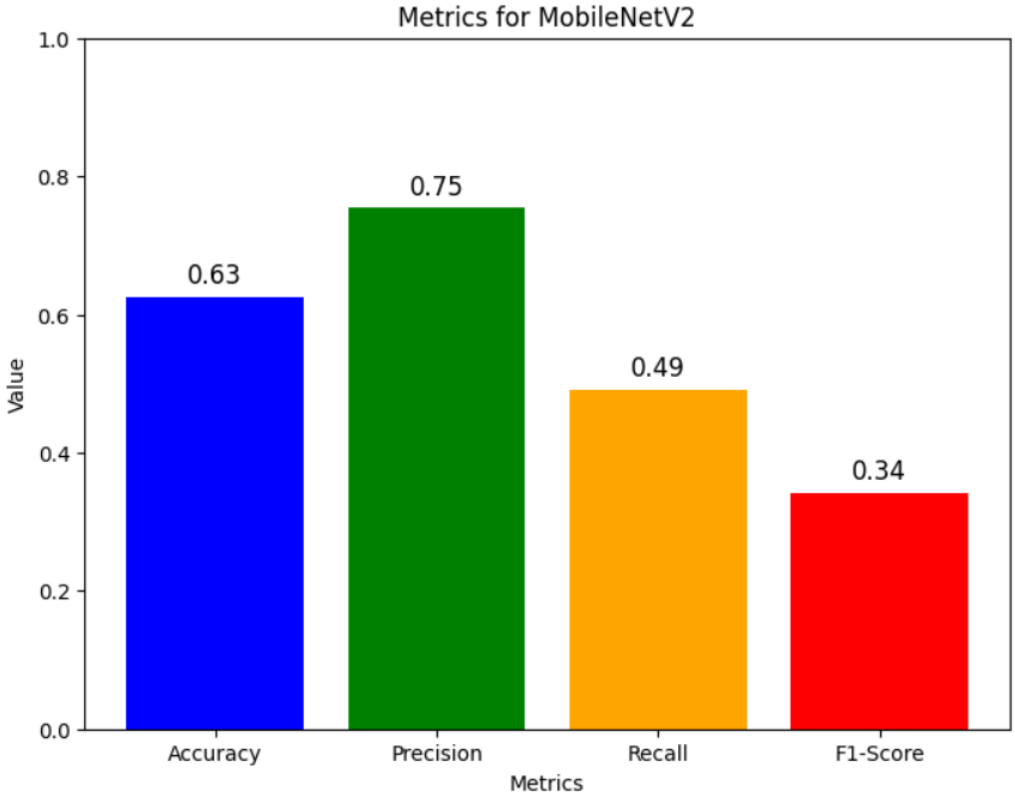

Metrics for MobileNetV2
1.0
0.8
0.6
0.4
0.2
0.0
0.65
0.76
0.54
0.35
Accuracy
Precision
Recall
F1-Score
Metrics

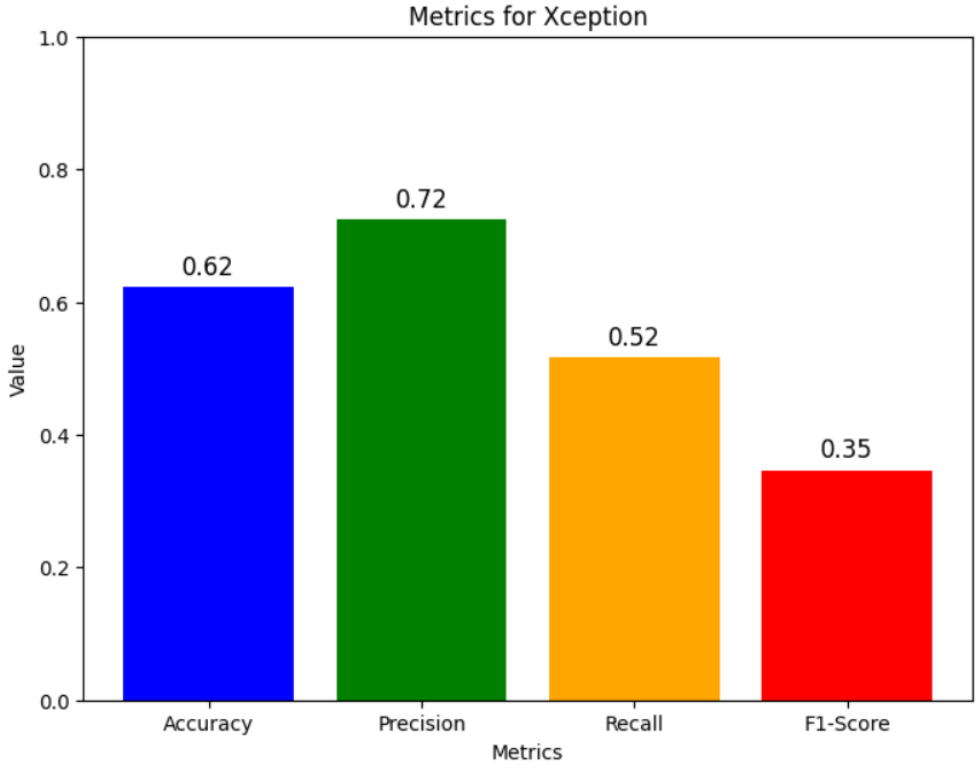

Metrics for Xception
1.0
0.8
0.6
0.4
0.2
0.0
Value
0.64
0.77
0.51
0.35
Accuracy
Precision
Recall
F1-Score
Metrics

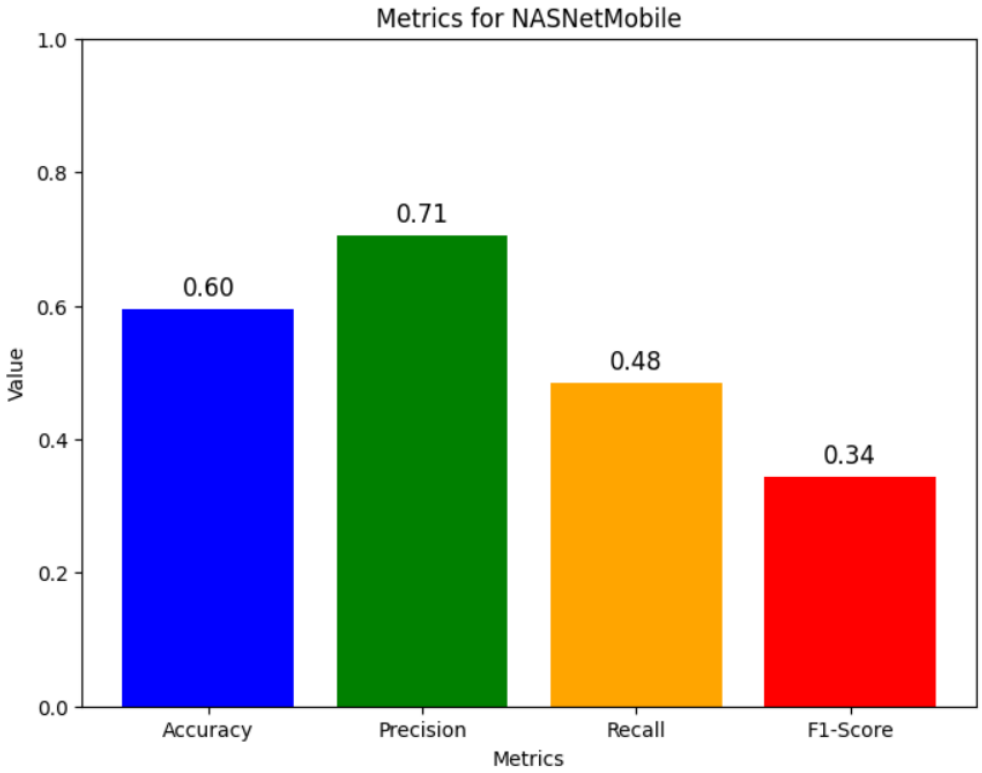

Metrics for NASNetMobile
1.0
0.8
0.6
0.4
0.2
0.0
Value
0.64
0.76
0.50
0.35
Accuracy
Precision
Recall
F1-Score
Metrics

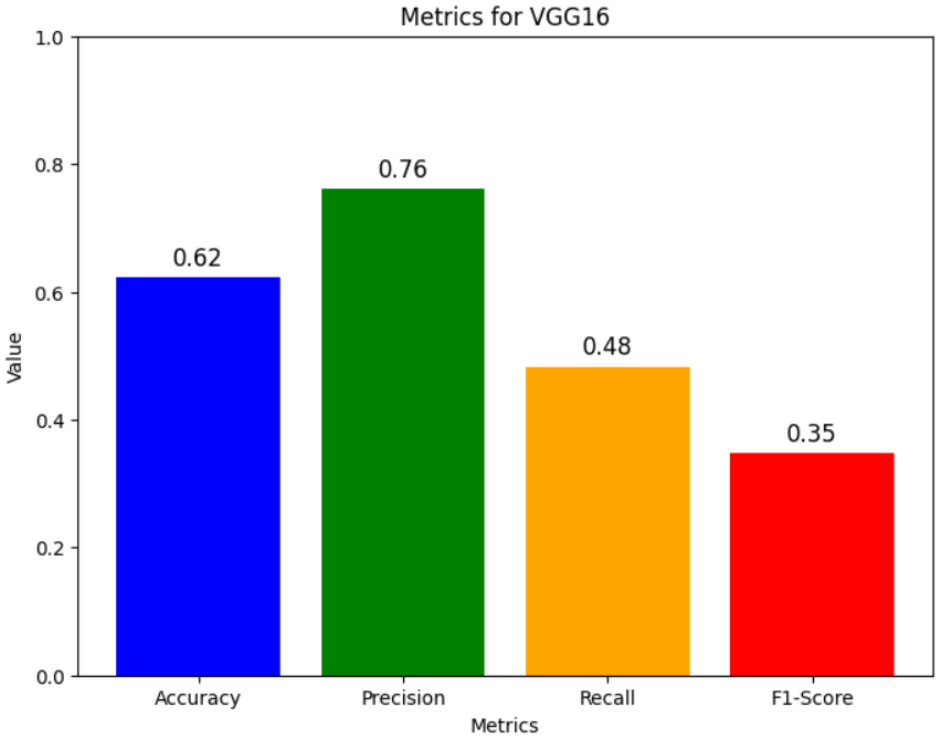

Metrics for VGG16
1.0
0.8
0.6
0.4
0.2
0.0
Value
0.63
0.77
0.49
0.33
Accuracy
Precision
Recall
F1-Score
Metrics

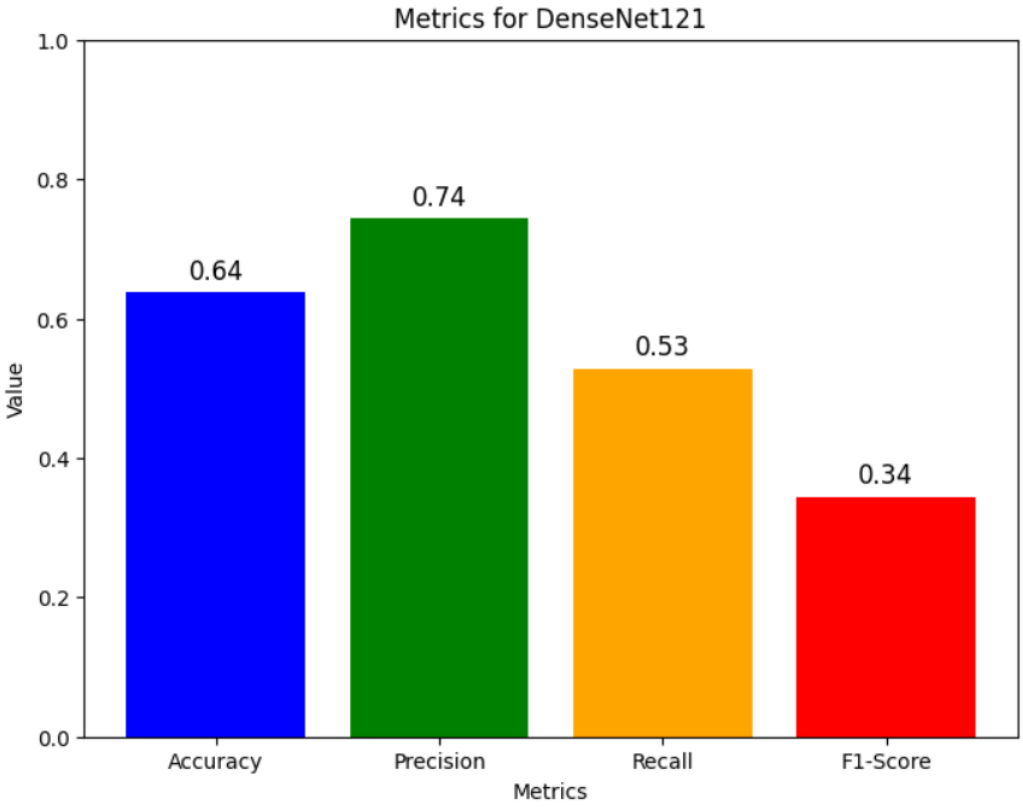
Merged Dataset

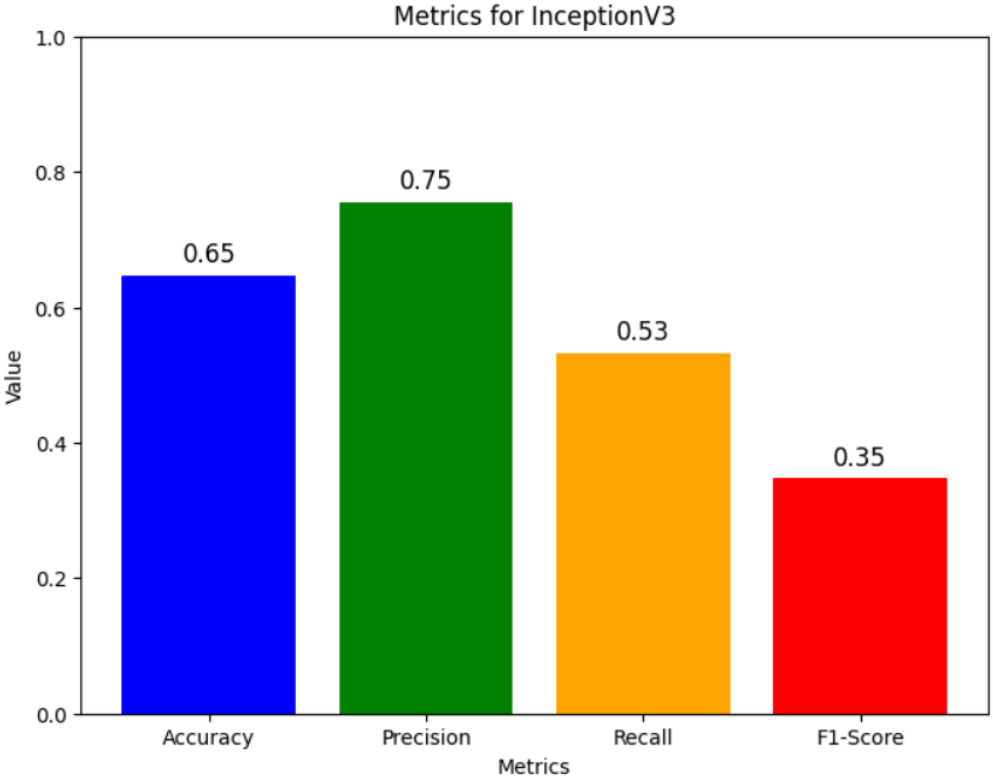


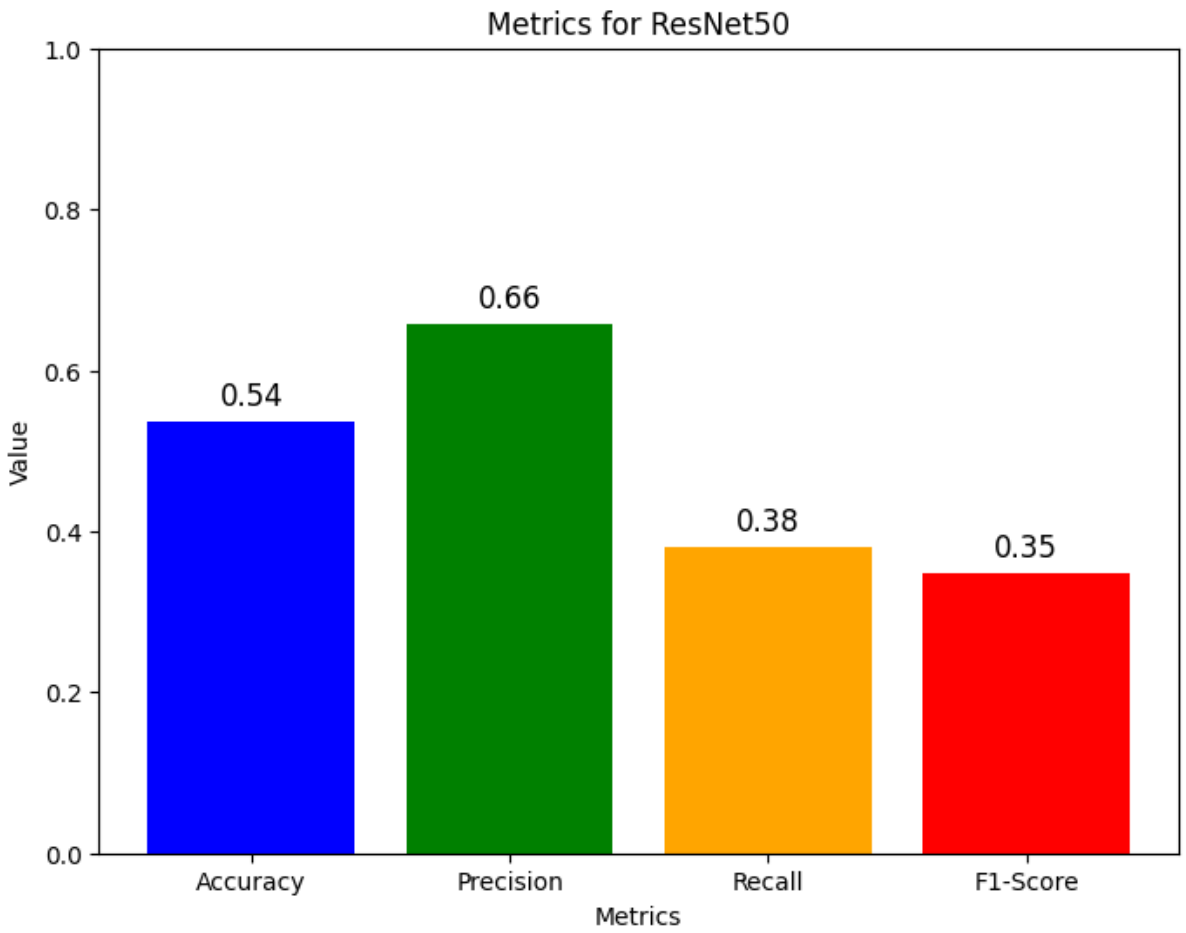



Metrics for NASNetMobile
1.0
0.8
0.6
0.4
0.2
0.0
Value
0.60
0.71
0.48
0.34
Accuracy
Precision
Recall
F1-Score
Metrics


Metrics for VGG16
1.0
0.8
0.6
0.4
0.2
0.0
Value
0.62
0.76
0.48
0.35
Accuracy
Precision
Recall
F1-Score
Metrics


Metrics for DenseNet121
1.0
0.8
0.6
0.4
0.2
0.0
Value
0.64
0.74
0.53
0.34
Accuracy
Precision
Recall
F1-Score
Metrics


Metrics for InceptionV3
1.0
0.8
0.6
0.4
0.2
0.0
Value
0.65
0.75
0.53
0.35
Accuracy
Precision
Recall
F1-Score
Metrics


Metrics for ResNet50
1.0
0.8
0.6
0.4
0.2
0.0
Value
0.54
0.66
0.38
0.35
Accuracy
Precision
Recall
F1-Score
Metrics