

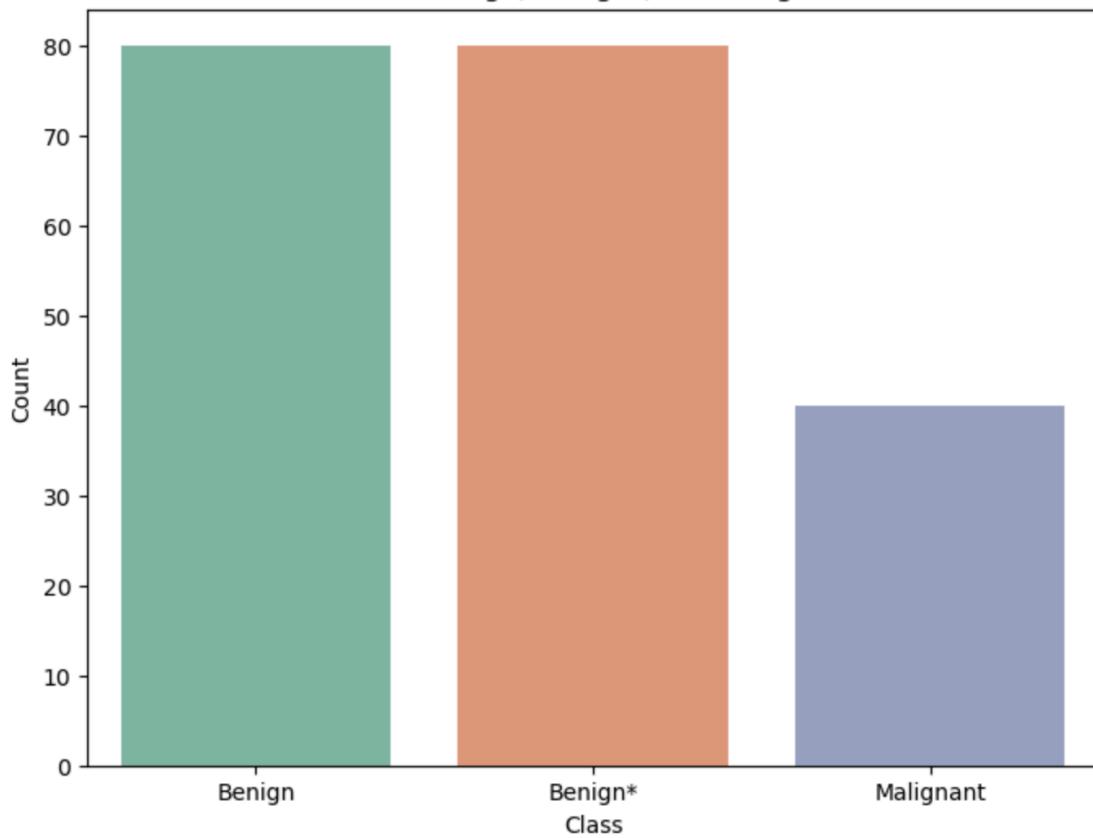
Data Appendix

Variable Analysis:

Column	Description	Example Response
Image Name	Unique ID of each dermatological lesion	IMD016
Asymmetry	Is the lesion fully symmetric (0), symmetric in 1 axis (1), or fully asymmetric (2)	1
Pigment Network	Is the pigment network of the lesion atypical (AT) or typical (T)	T
Dots/Globules	Are dots/globules in the lesion atypical (AT), typical (T), or absent (A)	AT
Streaks	Are streaks in the lesion absent (A) or present (P)	A
Blue-Whitish Veil	Is a blue-whitish veil absent (A) or present (P) for each lesion	P
White	Does the lesion contain white colors yes (X) or no (NaN)	NaN
Red	Does the lesion contain red colors yes (X) or no (NaN)	X
Light-Brown	Does the lesion contain light-brown colors yes (X) or no (NaN)	NaN
Dark-Brown	Does the lesion contain dark-brown colors yes (X) or no (NaN)	X
Blue-Gray	Does the lesion contain blue-gray colors yes (X) or no (NaN)	NaN
Black	Does the lesion contain black colors yes (X) or no (NaN)	X
Image	High-resolution image of dermatological lesion	

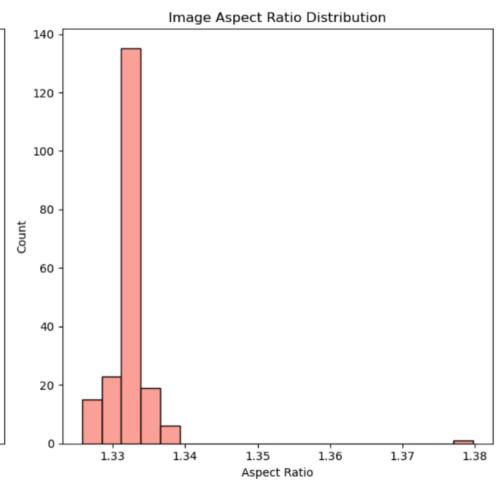
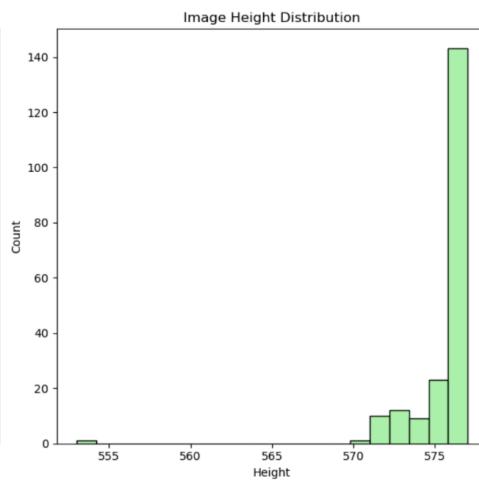
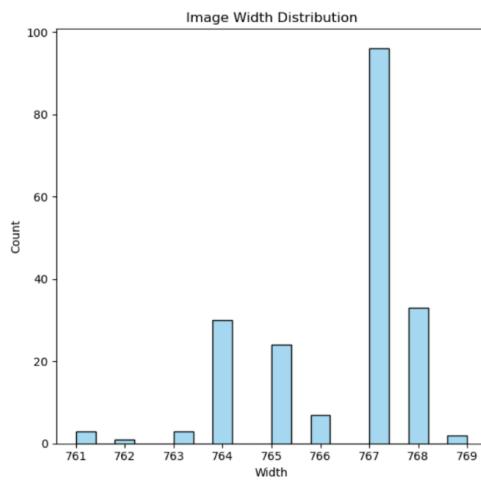
EDA Diagrams:

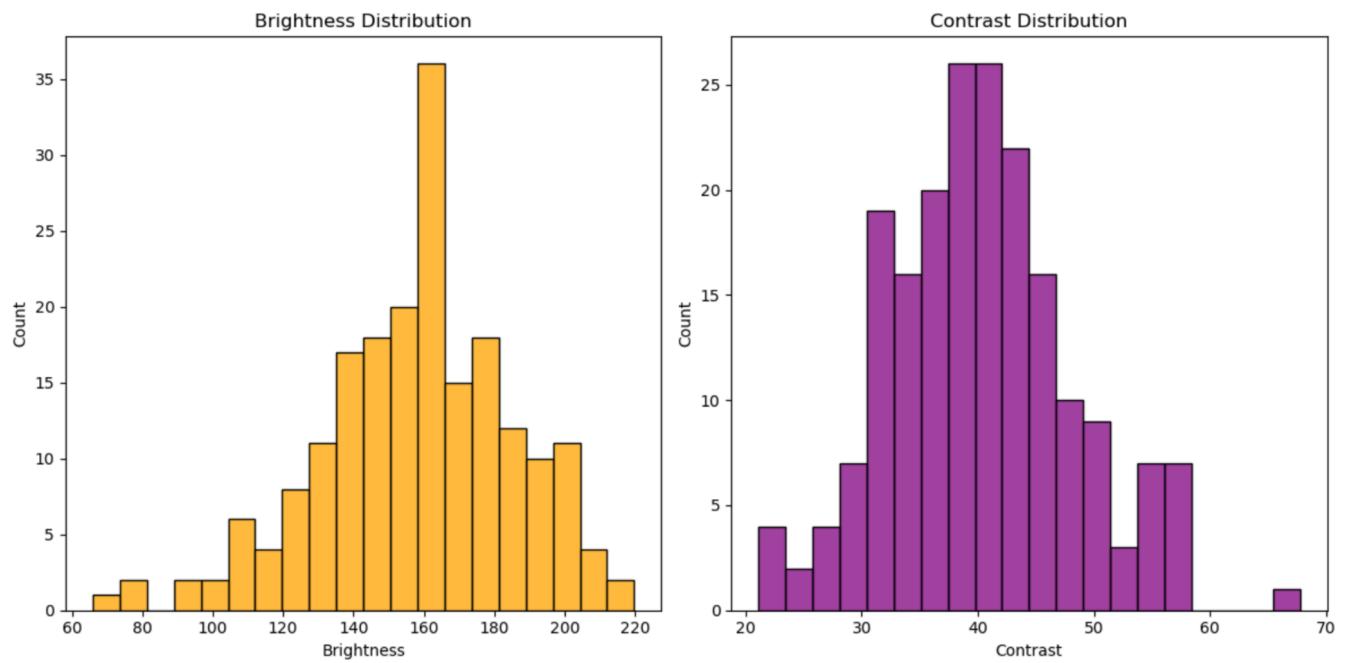
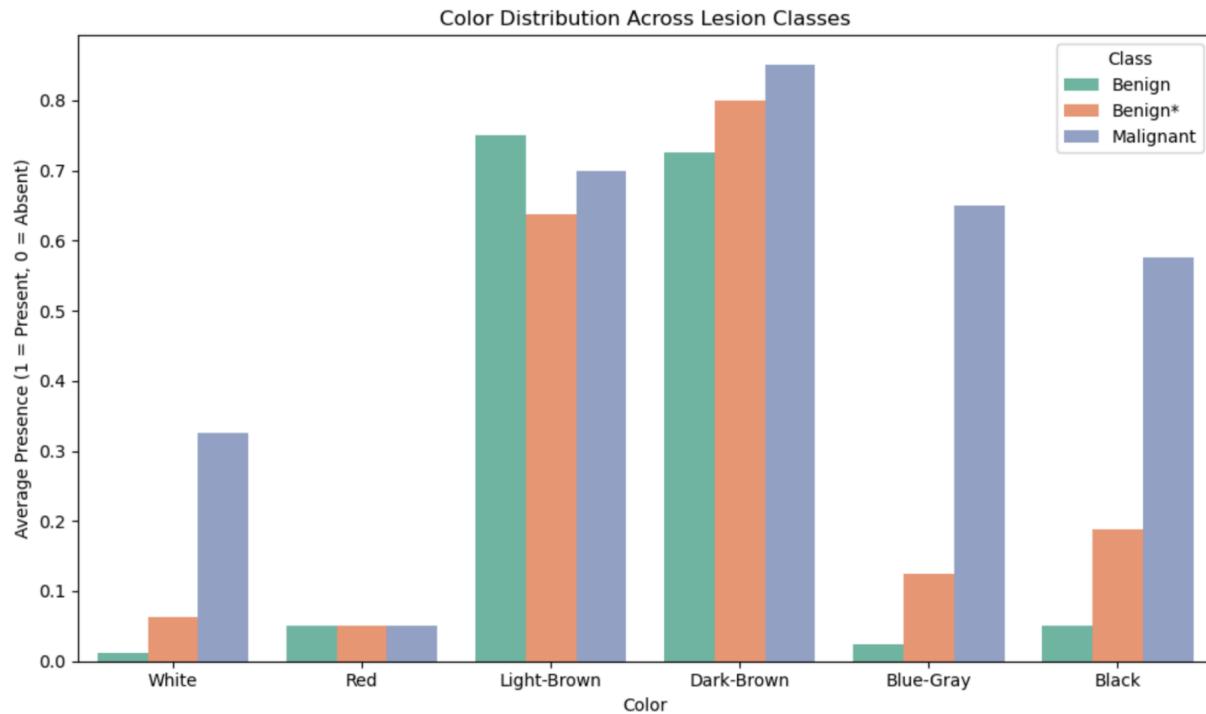
Distribution of Benign, Benign*, and Malignant Lesions



Class Distribution (%):

Class	Percentage
Benign	40.0
Benign*	40.0
Malignant	20.0





Dermatological Images (Lesion):

IMD002



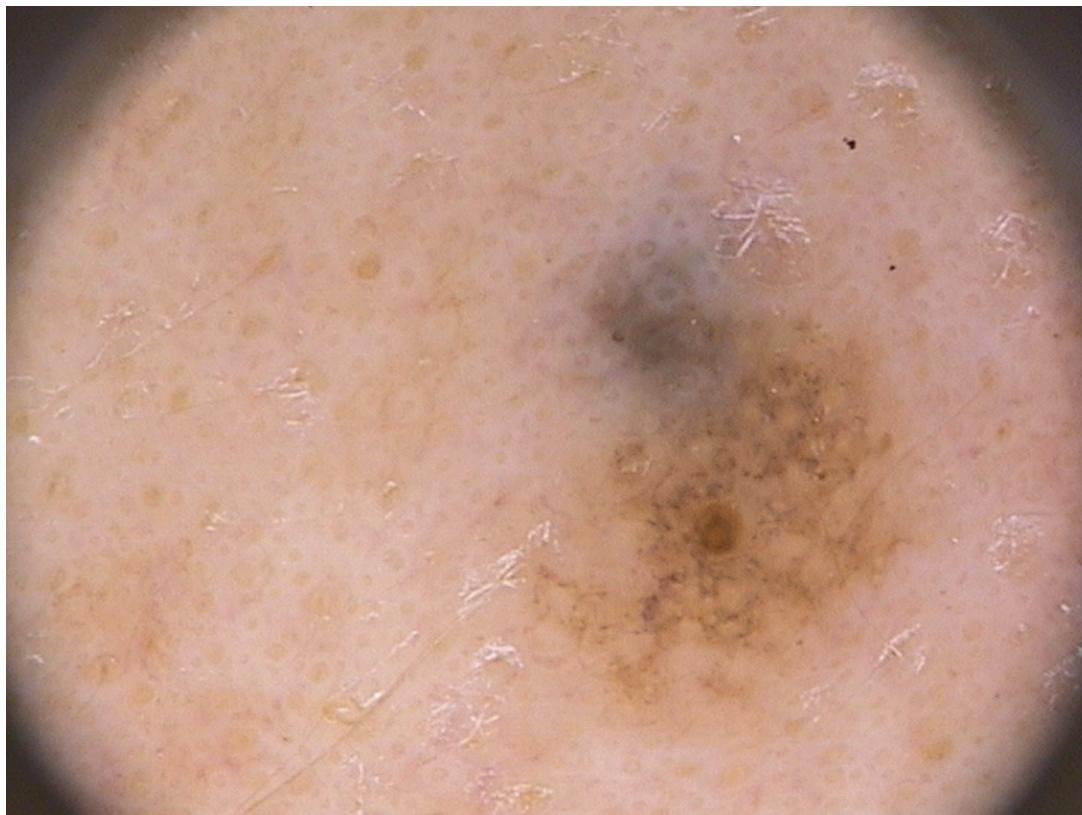
IMD003



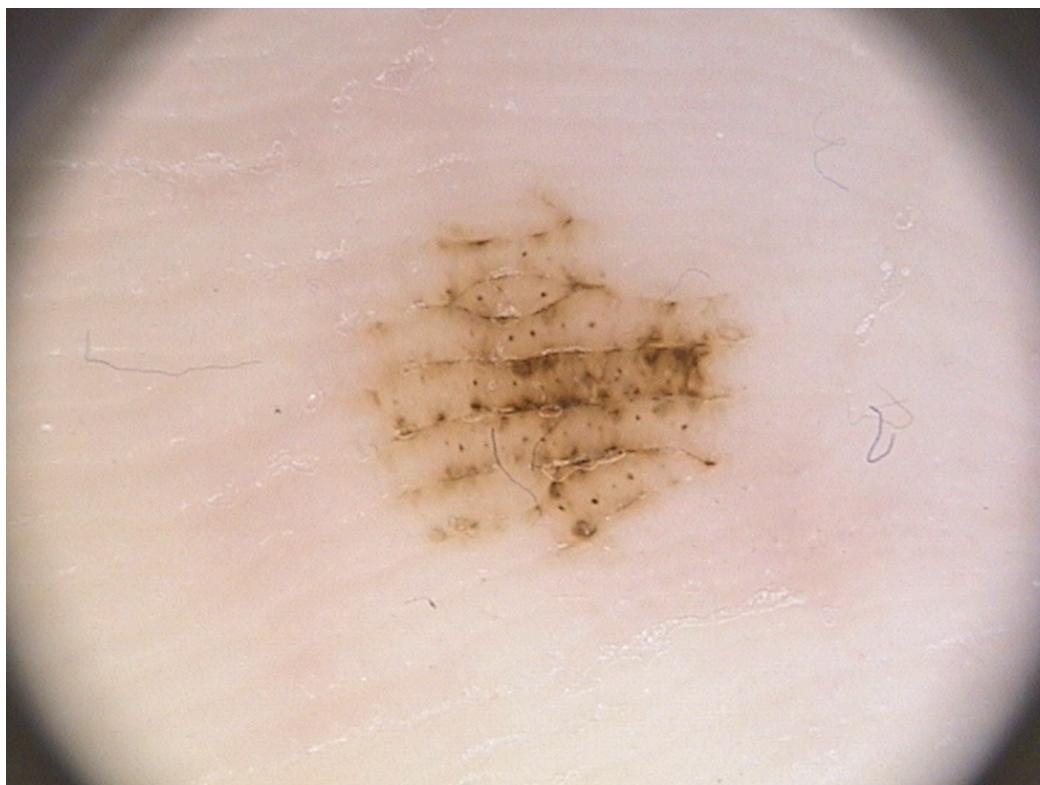
IMD004



IMD006



IMD008

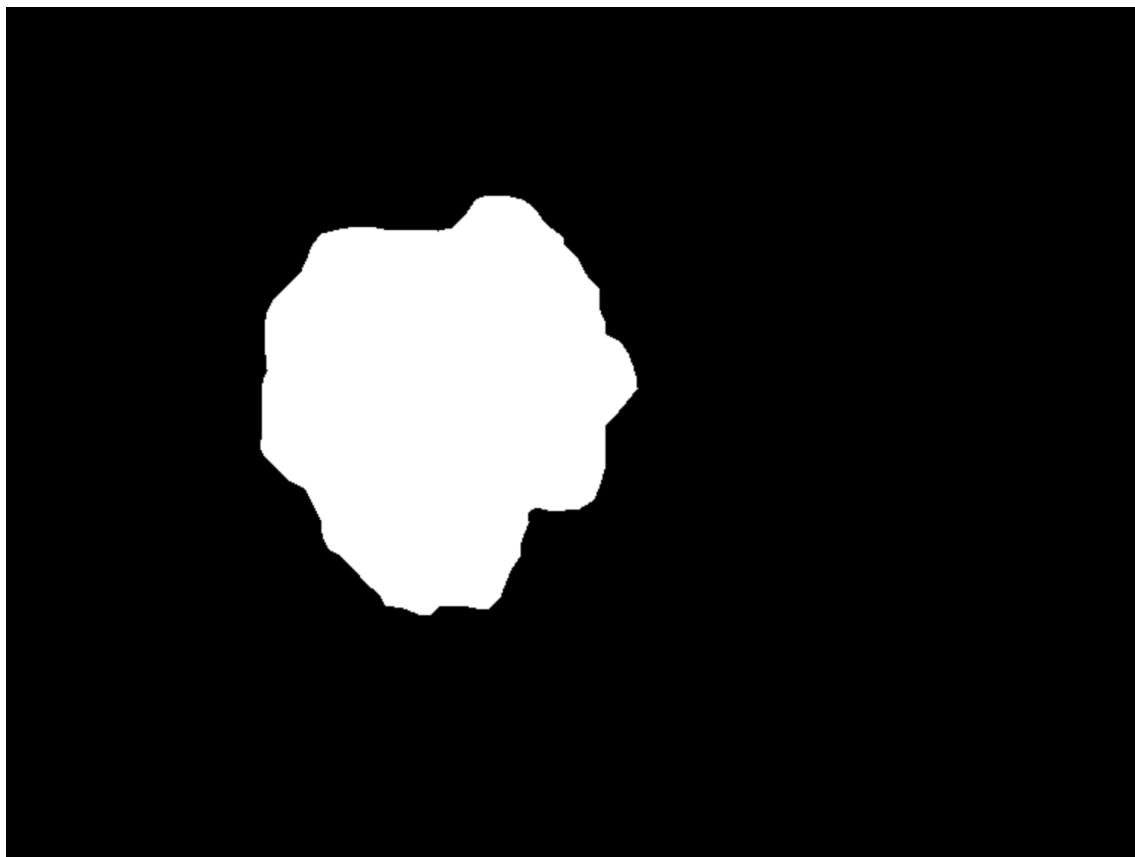


Dermatological Images (Outline):

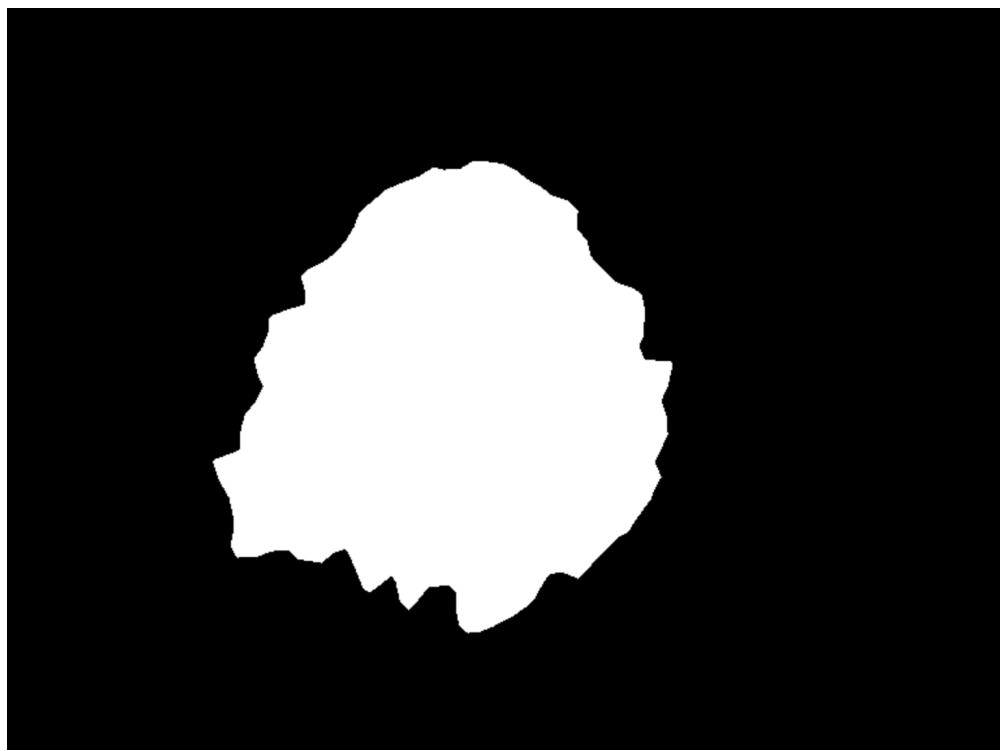
IMD002



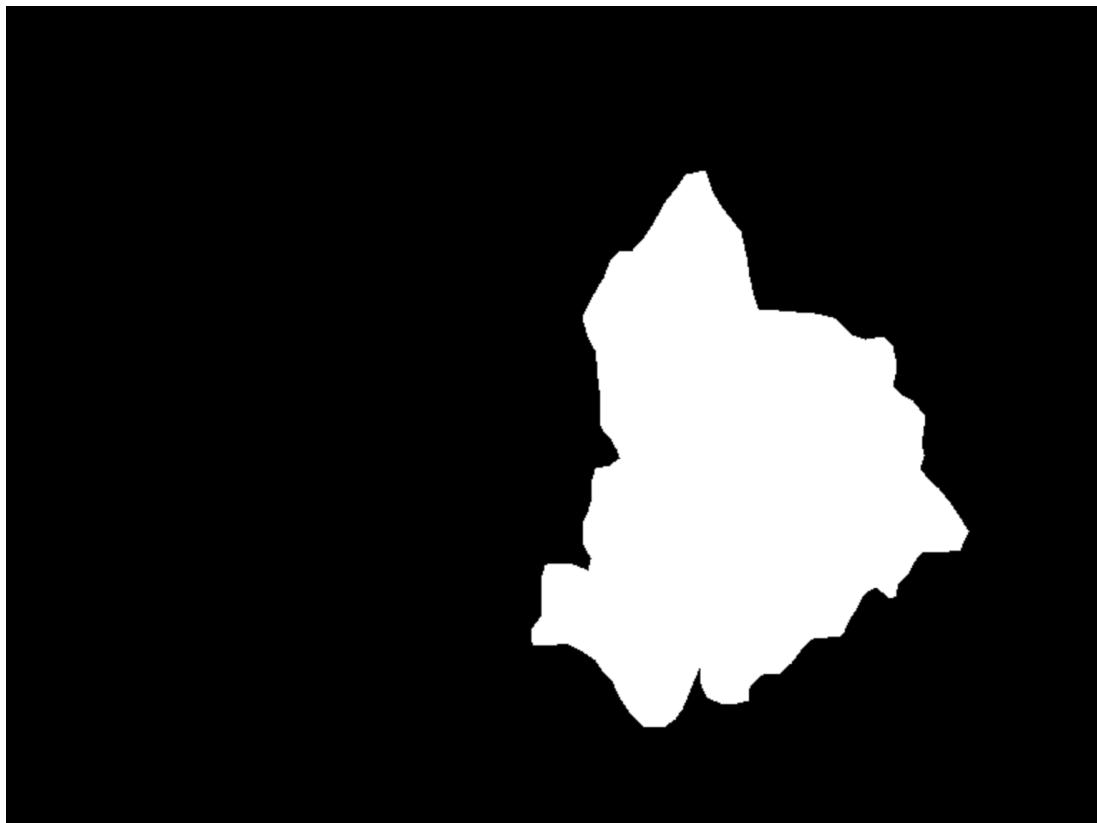
IMD003



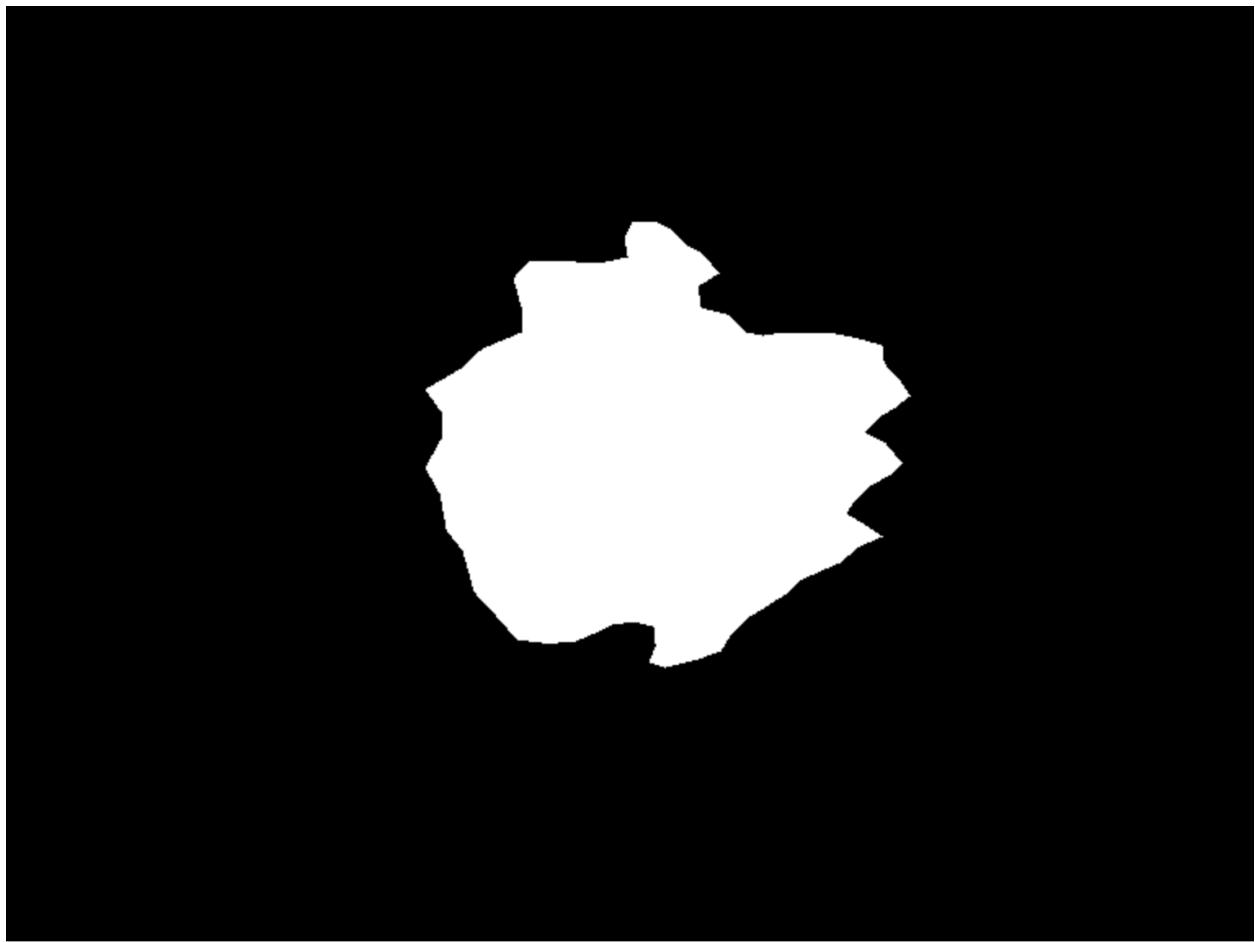
IMD004



IMD006

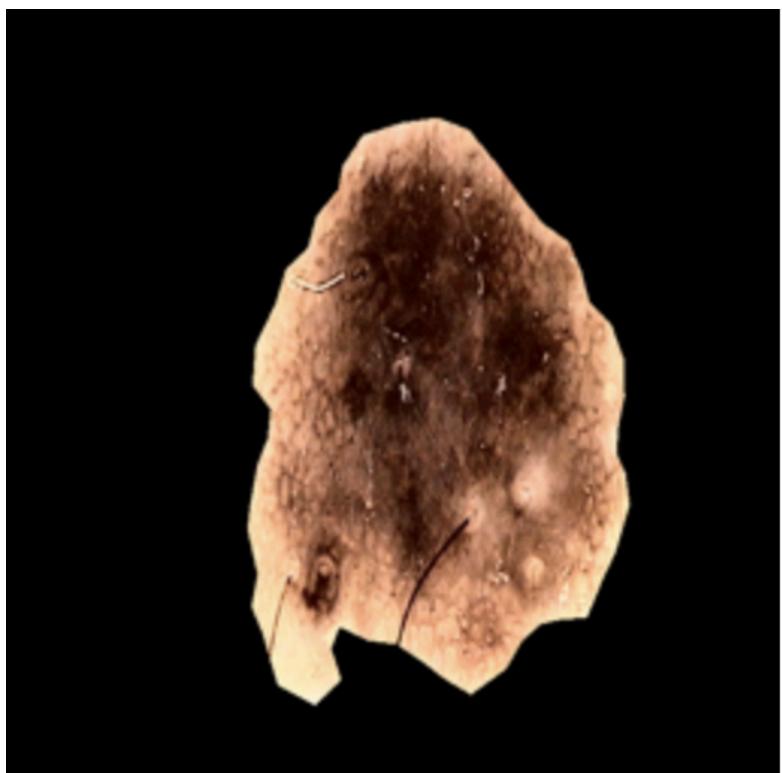


IMD008



Dermatological Images (Merged):

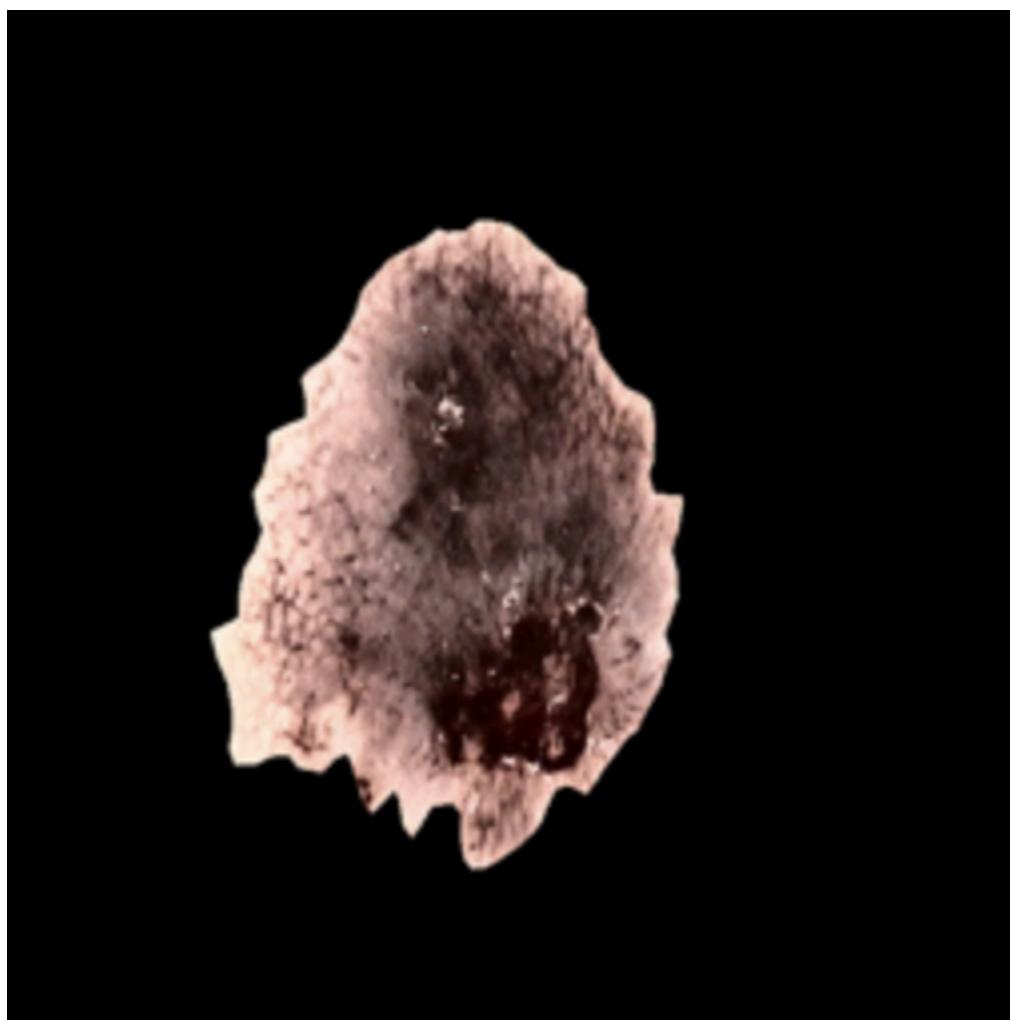
IMD002



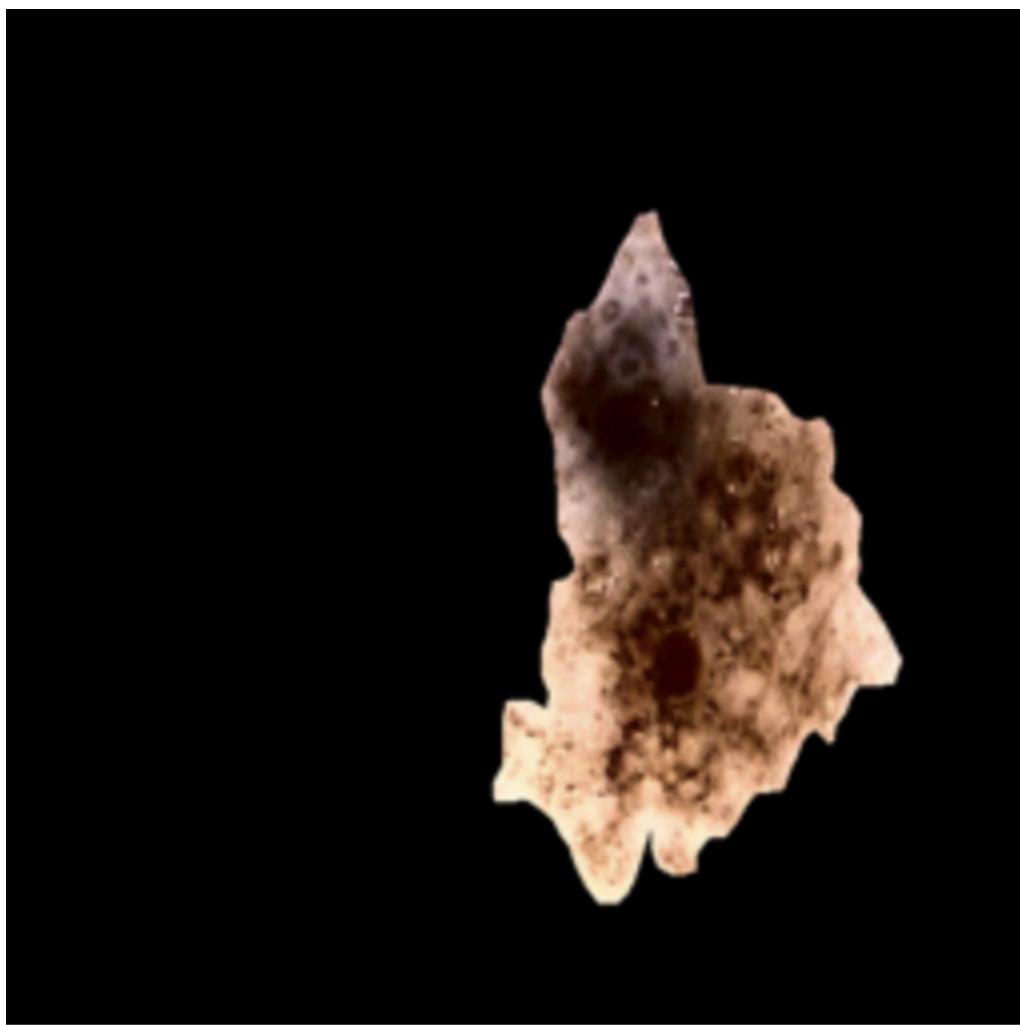
IMD003



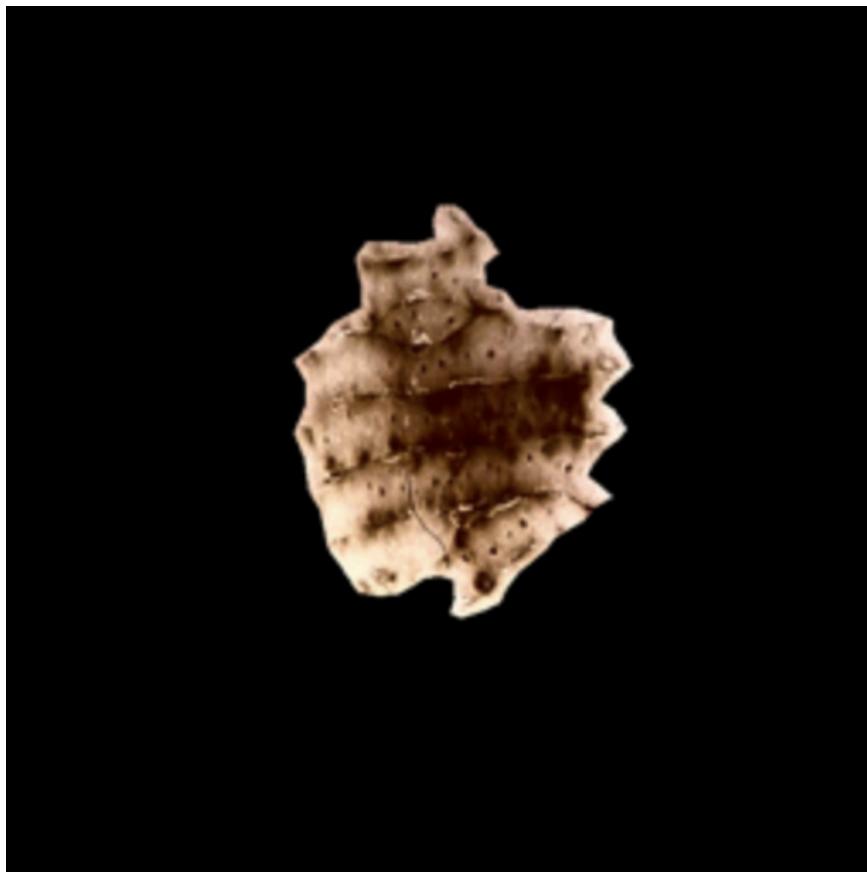
IMD004



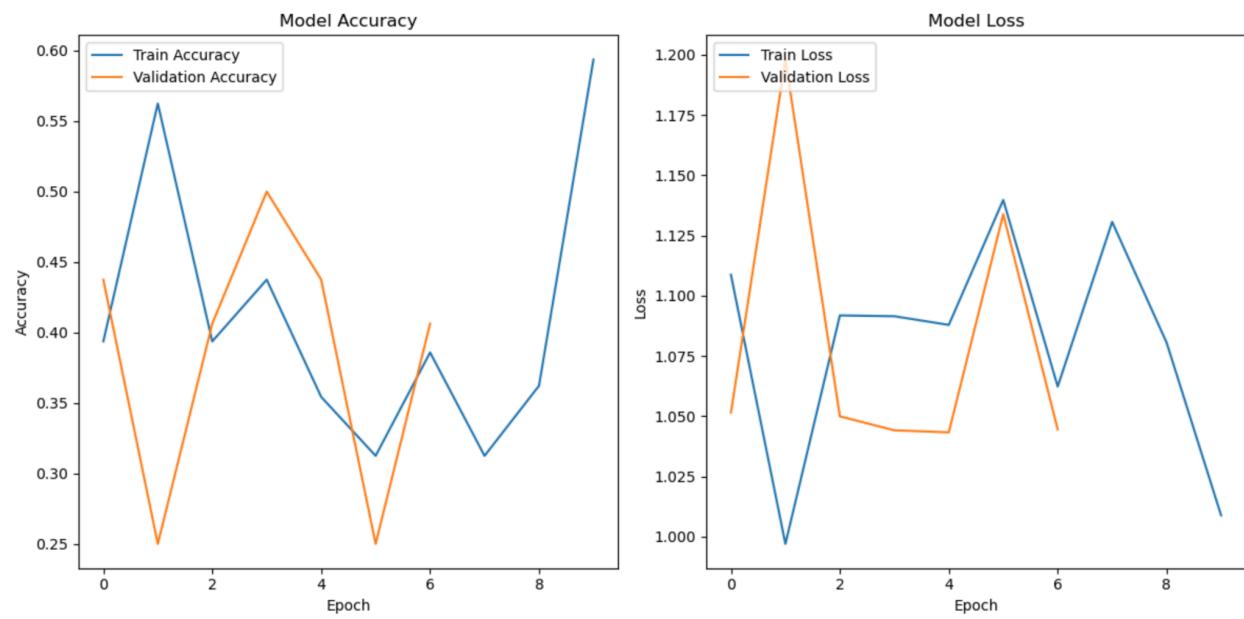
IMD006

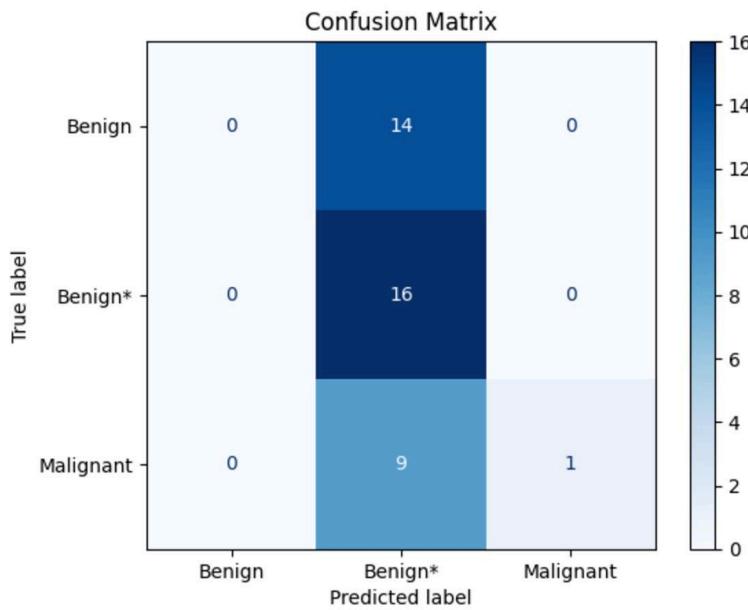


IMD008



Lesion Predictions Using ResNet:





Confusion Matrix Explanation:

- Rows represent the actual classes.
- Columns represent the predicted classes.
- Diagonal elements (top-left to bottom-right) represent correct predictions for each class.
- Off-diagonal elements represent misclassifications:
 - Values in row i and column j indicate how many instances of class i were incorrectly predicted as class j.