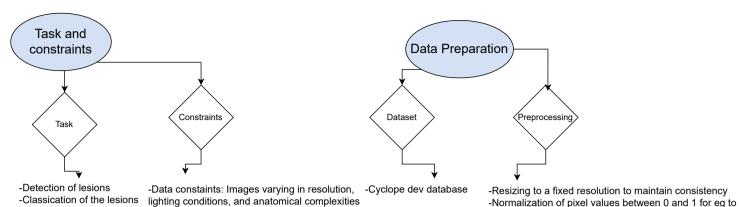
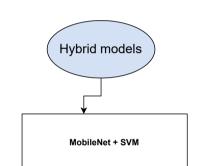
Goal: Build a Hybrid ML architecture for medical image classification(endoscopy images) that can be embedded later



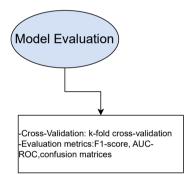
-Hardware constraints: processing power

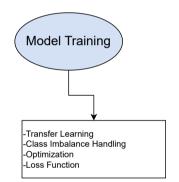
(CPU,GPU),memory(RAM, storage), battery life



into polyps/nonpolyps

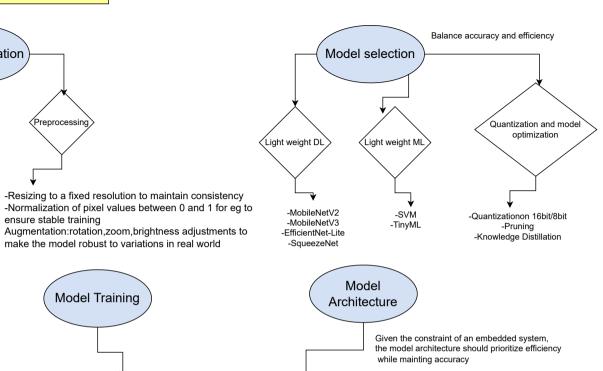
Used in medical image analysis research, less common in endoscopy





make the model robust to variations in real world

ensure stable training



-Input layer: Accepts preprocessed endoscopic images -Feature extraction layer: lightweight CNN

-Global Average pooling: to reduce the number of parameters and prevent overfitting, instead of fully connected layers

-Classification Head : Add a few dense layers followed by a softmax layer to classify the extracted features

-Output : the predicted class label