- Does the model perform as accurately as expected on your smartphone? List a few methods to improve the model's accuracy.
 - Yes the model perform good
 - Improve data quality by increasing dataset size, balancing classes, and reducing noise.
 - Optimize feature extraction using proper DSP settings, relevant features, and data augmentation.
 - Enhance model architecture by tuning hyperparameters, using larger networks, or trying different ML models.
 - Prevent overfitting with dropout, L2 regularization, and cross-validation on diverse datasets.
 - Optimize deployment with model quantization, hardware acceleration, and efficient real-time processing.
- When building a model for resource-limited hardware, how do you balance fast inference times with acceptable model accuracy? What trade-offs did you encounter?
 - Model quantization reduces memory and speeds up inference but may slightly decrease accuracy.
 - Use lightweight architectures like MobileNet for efficiency, sacrificing some accuracy for speed.
 - Reduce input features to lower computation, but risk losing critical information.