### **Fixes and Improvements**

* **Data Types**: Ensure that both input and label tensors are of the same type (e.g., both float32) to avoid compatibility issues during model inference.
* **Inference Handling**: Replace the unsupported inference() method with the appropriate steps to run inference using the TFLite interpreter. This may involve adding specific code to load the model and perform inference on batched data.
* **Device Simulation**: Consider optimizing the simulation to handle edge devices with varying hardware capabilities. Testing on a range of devices that do not support PAC or have limited precision would provide a more realistic simulation.
* **Batch Processing**: To better simulate real-world edge inference, modify the code to process multiple samples in batches. This would provide more accurate results and better mimic how the model would perform on actual hardware.

This reflective journal captures key aspects of the simulation, highlights both successes and areas needing improvement.

Images :