TensorArray Not Used

Context

Efficiently growing arrays in TensorFlow loops can be challenging if not handled correctly. Using `tf.constant()` for this purpose **often leads to errors and inefficient code**. In TensorFlow, developers may need to create a dynamic array (one that grows during execution) inside a loop. Attempting this with `tf.constant()` **results in errors because tensors initialized with `tf.constant()` are immutable**.

Problem

Using **`tf.constant()`** in loops for growing arrays leads to:

- TensorFlow will **raise an error** when trying to modify **an immutable tensor.**

Solution

Developers should not use `tf.constant()` with arrays but instead use `tf.TensorArray()`

Existing Stage	Effect
Model Training	Efficiency & Error-prone

Example

Python

```
### TensorFlow
import tensorflow as tf
def fibonacci(n):
   a = tf.constant(1)
   b = tf.constant(1)
-    c = tf.constant([1, 1])
+    c = tf.TensorArray(tf.int32, n)
+    c = c.write(0, a)
+    c = c.write(1, b)
```