Marine Species Classification Report

📌 \*\*Model\*\*: ConvNeXt-Tiny

✅ \*\*Final Accuracy\*\*: 93.64%

📉 \*\*Final Loss\*\*: 0.2489

🧪 \*\*Validation Accuracy\*\*: ~33.89% after 10 epochs

🗂️ \*\*Dataset\*\*: 23 marine species categories

🚀 \*\*Framework\*\*: TensorFlow + Keras

🔍 \*\*Objective\*\*: Accurately classify marine species using a transfer learning-based image classifier.

🎯 Observations:

• Model showed high training accuracy after 10 epochs.

• Possible overfitting suggested by train-val accuracy gap.

• Further fine-tuning or regularization may help improve validation performance.