

Using device: CUDA

Task execution time: 0.29 seconds

**Completed Tasks:**

Task 1.1: Load CIFAR-10 Dataset ✓

Task 1.2: Visualize CIFAR-10 Samples ✓

Task 1.3: Convert to Grayscale ✓

Task 2.1: Extract SIFT Features ✓

Reset (Clear Task)

# CIFAR-10 Image Classification with BoVW and CNN

This application implements image classification on the CIFAR-10 dataset using:

- Bag of Visual Words (BoVW) model with SVM classifier
- Deep Learning approach with ResNet-18 CNN
- Data augmentation techniques

Follow the tasks step by step using the dropdown menu.

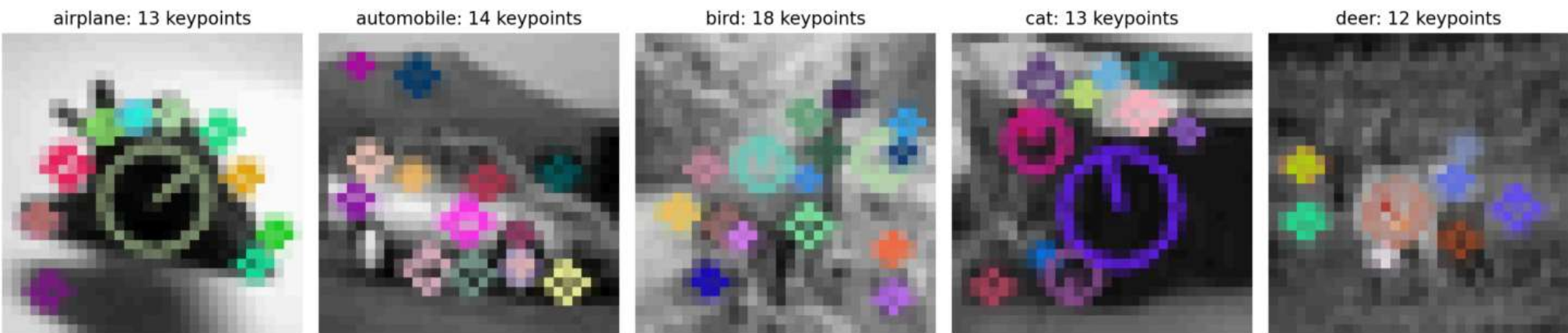
Select a task to run:

Task 2.2: Visualize SIFT Keypoints



Run Task

## Task 2.2: Visualize SIFT Keypoints



Visualization completed and saved to 'output/sift\_keypoints.png'