

Settings

Model loaded from: /app/model/sports-ball-classification/model.keras

Using layer: conv_128_3 for Grad-CAM

Grad-CAM Settings

Heatmap Intensity: 0.50

Colormap: jet

Supported Categories

- American Football
- Baseball
- Basketball
- Billiard Ball
- Bowling Ball
- Cricket Ball
- Football
- Golf Ball
- Hockey Ball
- Hockey Puck
- Rugby Ball
- Shuttlecock
- Table Tennis Ball
- Tennis Ball
- Volleyball

Sports Ball Classification with Grad-CAM

Upload an image of a sports ball to classify it and see what the AI is looking at!

Upload Image

Choose an image of a sports ball...

Drag and drop file here Limit 200MB per file • JPG, JPEG, PNG, GIF

volleyball_138.jpg 81.7KB

Use sample image for demo



Original Image

Grad-CAM Heatmap



What the model is looking at

Prediction Results



Volleyball

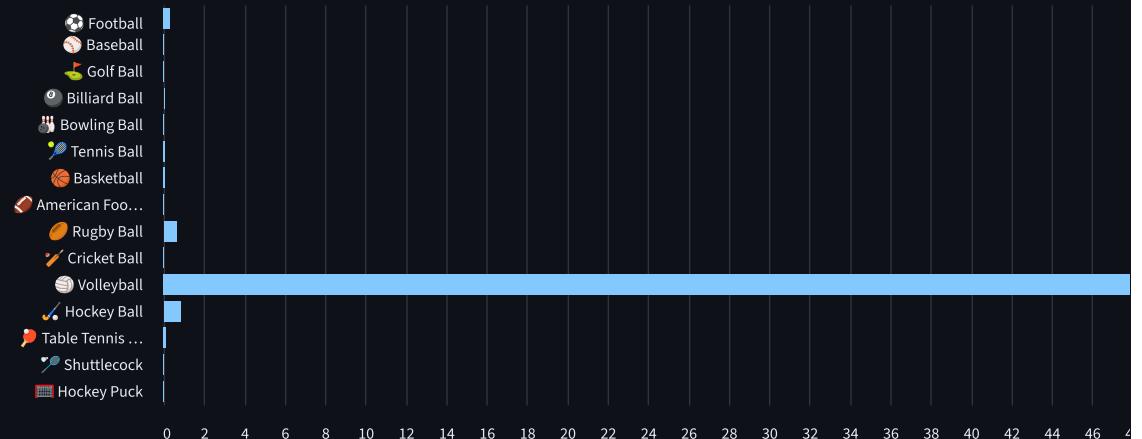
Confidence: 97.9%

High Confidence

localhost:8501

1/2

All Confidence Scores



>  View detailed scores

How Grad-CAM Works

Grad-CAM (Gradient-weighted Class Activation Mapping) is an explainability technique that highlights the regions of an image that are most important for the model's prediction.

- **Red/Yellow areas:** High importance - the model focuses heavily on these regions
- **Blue/Green areas:** Low importance - less relevant for the prediction
- **Overlay:** Combines the heatmap with the original image for easy interpretation

This helps us understand *what* the model is looking at and verify it's making decisions based on relevant features (like the ball's shape and texture) rather than background artifacts.