

RoboFlow Quick Start Guide

Basketball Analysis - 3 Custom Models

Setup Status: COMPLETE

All 3 RoboFlow projects have been successfully created and configured.

Quick Access

RoboFlow Dashboard

 <https://app.roboflow.com/tbf-inc>

Projects

1. Keypoint Detection

<https://app.roboflow.com/tbf-inc/basketball-shooting-form-keypoints>

2. Form Classifier

<https://app.roboflow.com/tbf-inc/basketball-form-quality-classifier>

3. Ball Tracker

<https://app.roboflow.com/tbf-inc/basketball-ball-trajectory-tracker>

API Keys

Private Key (for training/config):

rDWynPrytSysASUlyGvK

Publishable Key (for inference):

rf_qisv7ZQd27SzKITWRc2blZZo5F83

Quick Usage

Python

```
from roboflow_helpers import RoboFlowBasketballAnalyzer

# Initialize
analyzer = RoboFlowBasketballAnalyzer()

# Analyze shot
results = analyzer.analyze_shooting_form("basketball_shot.jpg")
```

Command Line

```
# Test project access
python3 roboflow_test_projects.py

# Run demo
python3 roboflow_helpers.py
```



Next Steps

1. Upload Training Data

- Visit each project dashboard
- Upload 100-500 images per project
- Use RoboFlow Annotate tool

2. Annotate Images

Keypoints (10 per image):

- shooting_wrist, shooting_elbow, shooting_shoulder
- non_shooting_shoulder, hip_center
- shooting_knee, shooting_ankle
- ball_position, release_point, head_position

Classification (multiple labels per image):

- Overall Form, Elbow Alignment, Release Height
- Follow Through, Balance

Object Detection (bounding boxes):

- basketball, release_point, basket

3. Train Models

- Generate dataset version with augmentation
- Train on RoboFlow platform
- Monitor training metrics
- Deploy trained models

4. Integrate

- Update version numbers in helper functions
- Test with real images
- Integrate with basketball analysis app



Documentation

Full Setup Guide: ROBOFLOW_SETUP.md

Helper Functions: roboflow_helpers.py

Strategy Document: ROBOFLOW_MODEL_STRATEGY.md

Troubleshooting

Models not working?

→ They need training data first. Upload and annotate images.

“Project not found”?

→ Use project ID without workspace prefix: basketball-shooting-form-keypoints

Rate limit errors?

→ Use private API key or upgrade RoboFlow plan

Support

- RoboFlow Docs: <https://docs.roboflow.com/>
 - Community: <https://community.roboflow.com/>
 - Support: support@roboflow.com
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Status:  Setup Complete |  Training Required

Created: December 13, 2025

Workspace: TBF Inc (tbf-inc)