

Understanding the problem statement

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- **Objective:** Classifying cricket shot using the pose of a player



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Pose
Detector



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Pose
Detector



Pose
Classifier



Understanding the Dataset



Understanding the Dataset

- 290 images: 4 different classes



Understanding the Dataset

- 290 images: 4 different classes
 - Cut
 - Drive
 - Sweep
 - Pull



Understanding the Dataset

- 290 images: 4 different classes
 - Cut
 - Drive
 - Sweep
 - Pull
- Around 70 images for each class



Understanding the Dataset

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Catalyst

Catalyst helps you write compact, but full-featured deep learning and reinforcement learning pipelines with a few lines of code.

CrypTen

CrypTen is a framework for Privacy Preserving ML. Its goal is to make secure computing techniques accessible to ML practitioners.

Detectron2

Detectron2 is FAIR's next-generation platform for object detection and segmentation.

DGL

Deep Graph Library (DGL) is a Python package built for easy implementation of graph neural network model family, on top of PyTorch and other frameworks.

ELF

ELF is a platform for game research that allows developers to train and test their algorithms in various game environments.



fastai

fastai is a library that simplifies training fast and accurate neural nets using modern best practices.

Steps to solve the Pose Detection problem

1. Install Dependencies



Steps to solve the Pose Detection problem

1. Install Dependencies
2. Load and pre-process the data



Steps to solve the Pose Detection problem

1. Install Dependencies
2. Load and pre-process the data
3. Data Augmentation



Steps to solve the Pose Detection problem

1. Install Dependencies
2. Load and pre-process the data
3. Data Augmentation
4. Detecting pose using detectron2

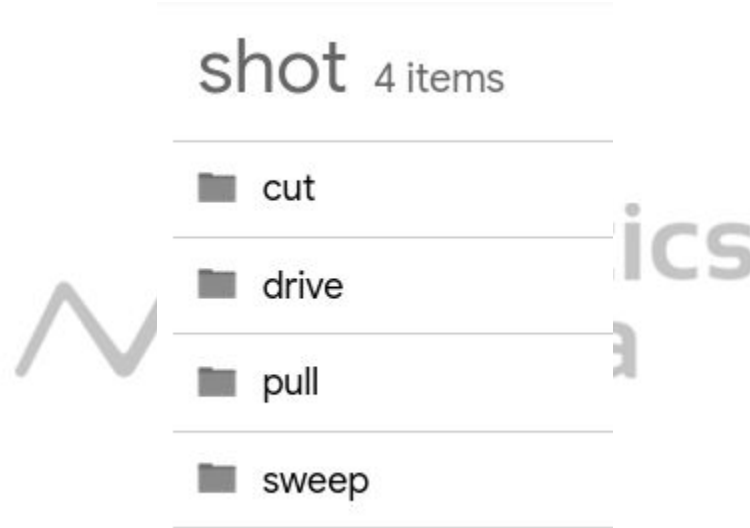
Steps to solve the Pose Detection problem

1. Install Dependencies
2. Load and pre-process the data
3. Data Augmentation
4. Detecting pose using detectron2
5. Classifying cricket shot using pose of a player

Steps to solve the Pose Detection problem

1. Install Dependencies
2. Load and pre-process the data
3. Data Augmentation
4. Detecting pose using detectron2
5. Classifying cricket shot using pose of a player
6. Evaluating model performance

Overview of the dataset



shot 4 items	
■	cut
■	drive
■	pull
■	sweep



Thank You