

# Understanding the problem statement

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- **Objective:** To build a Face Detection system



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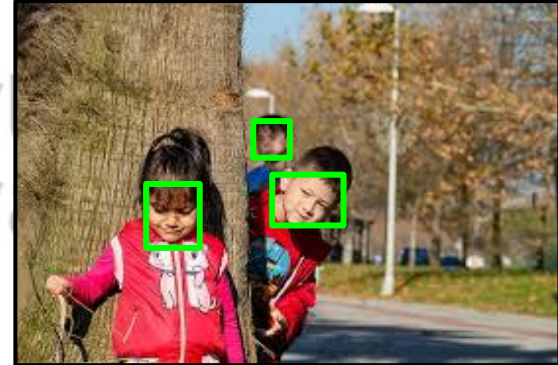
Analytics  
Vidhya

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- **Objective:** To build a Face Detection system



Face  
→  
Detector



# Understanding the Dataset



# Understanding the Dataset

- WIDER FACE - A Face Detection Benchmark



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- WIDER FACE - A Face Detection Benchmark
  - 32203 images, 393703 faces



# Understanding the Dataset

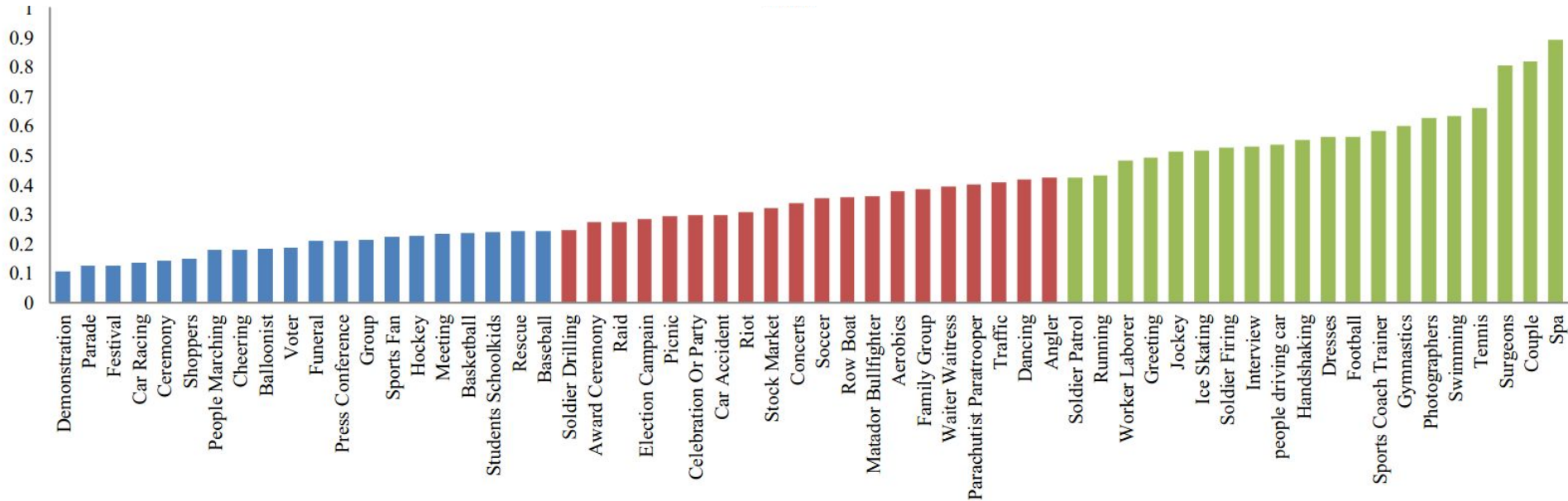
- WIDER FACE - A Face Detection Benchmark
  - 32203 images, 393703 faces
  - High degree of variability in scale, pose and occlusion





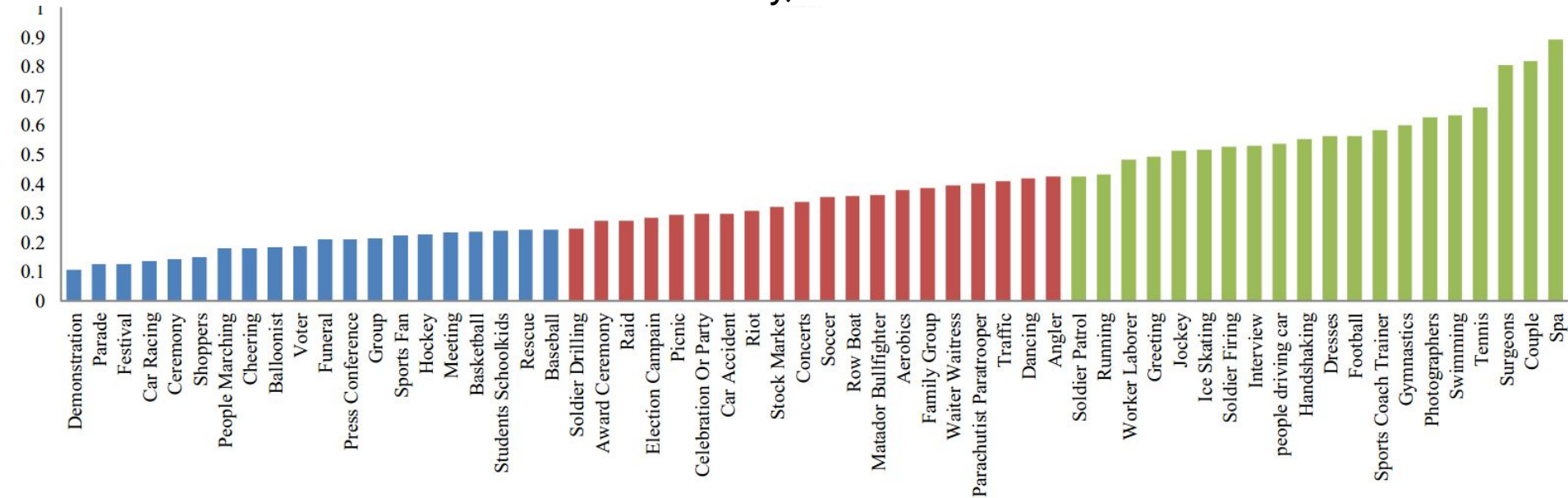
# Understanding the Dataset

- Includes faces from 60 event categories



# Understanding the Dataset

- Includes faces from 60 event categories
- Dataset is divided into 3 sets: Easy, Medium and Hard



# 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.



Thank You