



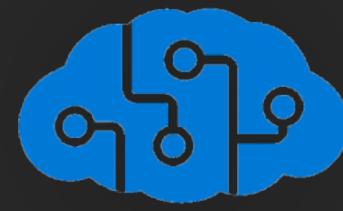
1team @ Adidas







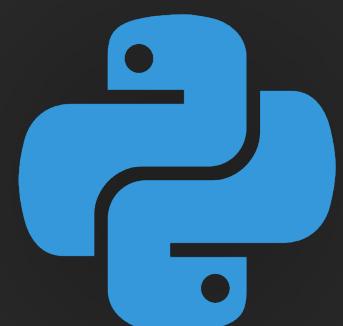
# TECHNOLOGIES



(CNN) VGG retrained to posenet



Tensorflow



Python

```
one

all logos
ame in self.logo_images.keys():
ate, tH, tW = self.logo_images[logo_name]

image.shape[0] > tH and image.shape[1] > tW:
edged = cv2.Canny(image, self.canny_low, self.canny_high) # edge detection
result = cv2.matchTemplate(edged, template, cv2.TM_CCOEFF)
(_, value, _, loc) = cv2.minMaxLoc(result)

# better match? update!
if match is None or value > match[0]:
    match = (value, loc)
    best_logo = logo_name

if best_logo:
    _, tH, tW = self.logo_images[best_logo]
    (_, loc) = match
    (startX, startY) = (loc[0], loc[1])
    (endX, endY) = (loc[0] + tW, loc[1] + tH)
    cv2.rectangle(image, (startX, startY), (endX, endY), (0, 0, 255), 2)

    correct = best_logo in img_path.lower()

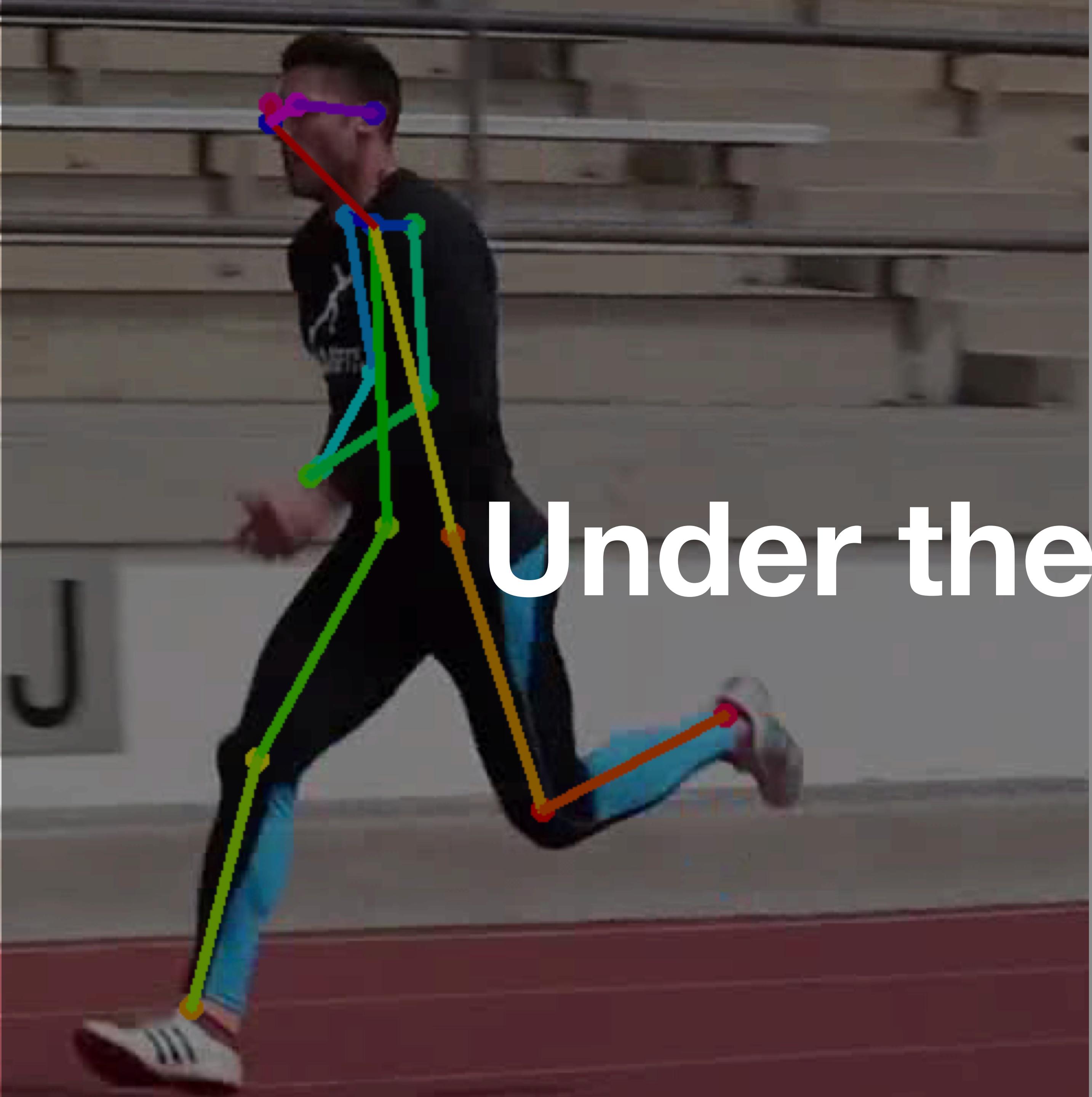
    return (image, correct, best_logo)

else:
    return None

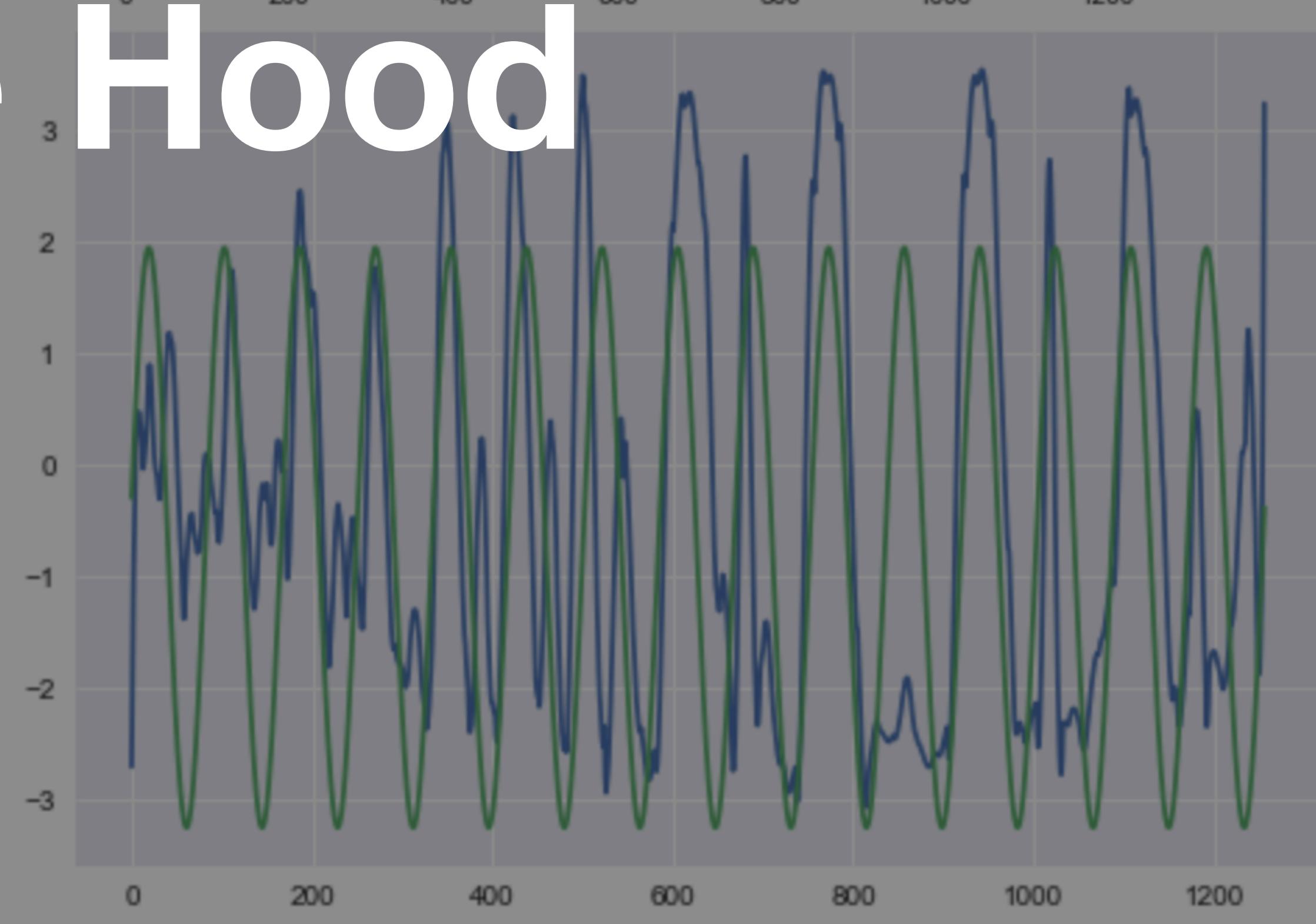
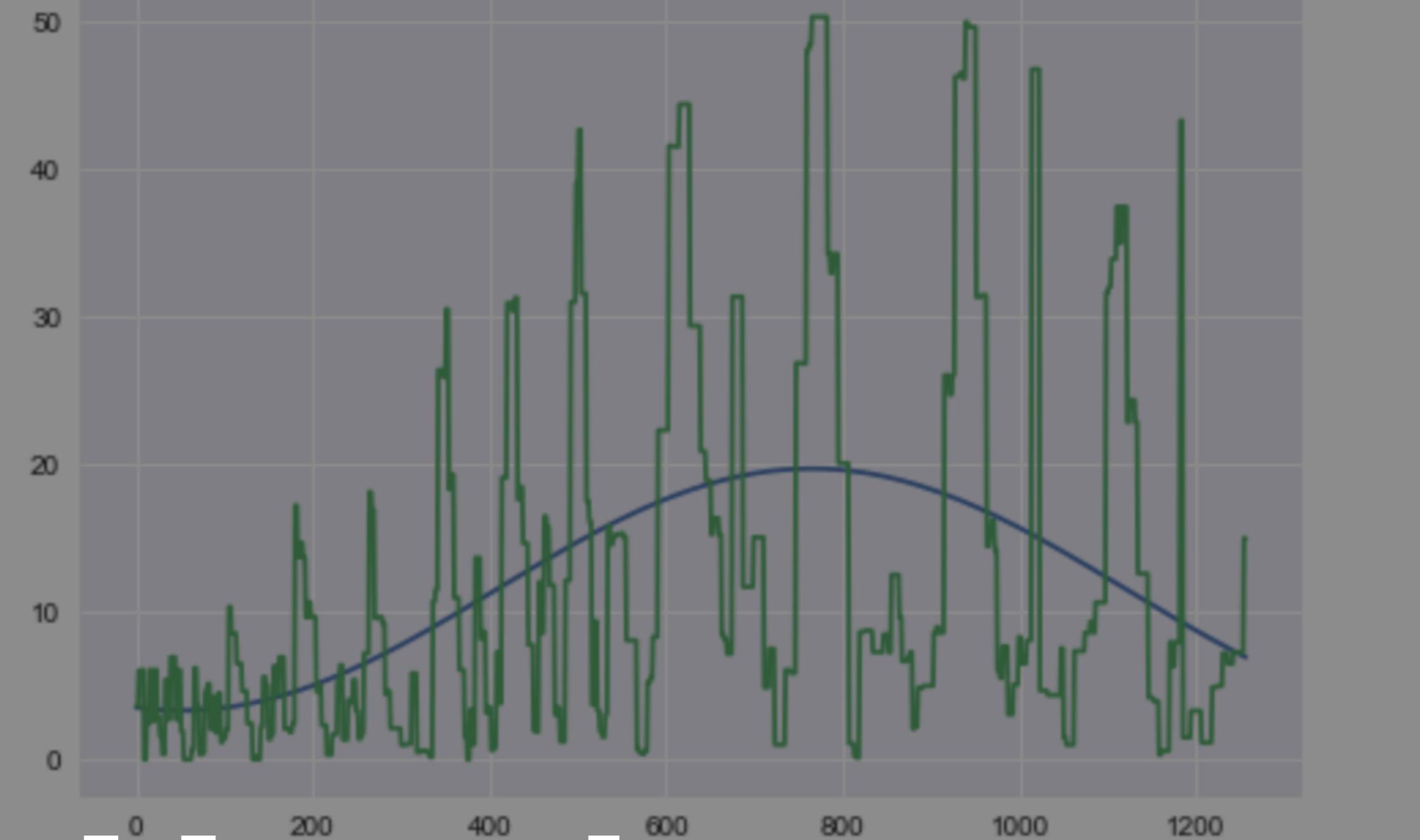
def predict_dir(self, img_dir = './train'):
    img_file_pathes = glob2.glob(img_dir + "/**/*.*.jpg")

    nb_correct = 0
    nb_incorrect = 0
    nb_imgs = len(img_file_pathes)

    # create folders for predicted images
    if not os.path.exists(self.correct_dir):
        os.makedirs(self.correct_dir)
    if not os.path.exists(self.incorrect_dir):
        os.makedirs(self.incorrect_dir)
```



# Under the Hood



 Dashboard Sports Running Fencing Golf Basketball

Dashboard / My Dashboard

Running



View Details

Fencing

View Details

Golf



View Details

Basketball

View Details

Upload video

Drag and drop a video

# Live Demo

Development

10

8

6

4

Sports

