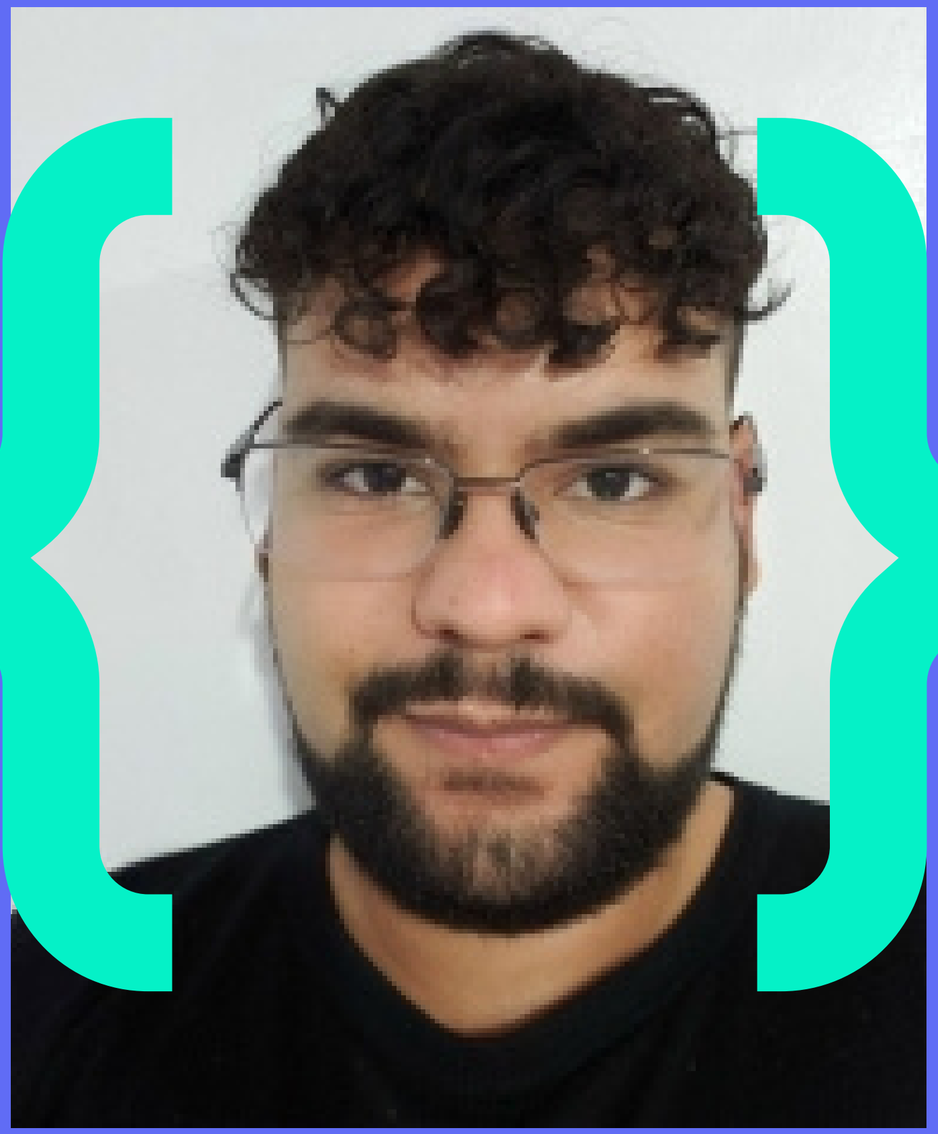
Pix FORCE

Sthefany e Gabriel

Detecção de objetos

Sthefany Barbosa

https://www.linkedin.com/in/sthefany-barbosa-581135256/.



Gabriel dos Santos

https://www.linkedin.com/in/gabrielfredes/

Métodos

Lowcode

Ferramenta:

ROBOFLOW

```java
public class InferenceLocal {
    no usages
    public static void main(String[] args) throws IOException {
        System.loadLibrary(Core.NATIVE_LIBRARY_NAME);
        // Get json.Image Path
        String filePath = "src/main/resources/img/image-picker4722773875026562-heic.jpg";
        File file = new File(filePath);
Mat mat= Imgcodecs.imread(filePath);
        // Base 64 Encode
        String encodedFile;
        FileInputStream fileInputStreamReader = new FileInputStream(file);
        byte[] bytes = new byte[(int) file.length()];
        fileInputStreamReader.read(bytes);
        encodedFile = new String(Base64.getEncoder().encode(bytes), StandardCharsets.US_ASCII);
```

```
/*
        String API_KEY = "iJtaImp5GrBtHzffbVzg"; // Your API Key
         String DATASET_NAME = "nn-gl4tb"; //
         String MODEL_ENDPOINT = "nn-gl4tb/3"; // model endpoint
         String classes="placa";
*/
 // perfil

         String API_KEY = "B1Tbf9LNtzt7CLZxfePX"; // Your API Key
         String DATASET_NAME = "perfilssf"; // Set Dataset Name (Found in Dataset URL)
         String MODEL_ENDPOINT = "perfilssf/2"; // model endpoint
          String classes="perfil";

         // Construct the URL
         String uploadURL = "https://detect.roboflow.com/" + MODEL_ENDPOINT + "?api_key=" + API_KEY
                 + "&classes="+classes+"&confidence=70&overlap=80";
```

```
if(!root.predictions.isEmpty()) {
    System.out.println(root.predictions.get(0).myclass);
    System.out.println("Quantidade de objetos detectados:"+root.predictions.size());
}
            for (Prediction prediction: root.predictions) {

                Imgproc.rectangle(mat,new Point((int) prediction.x, (int) prediction.y),
                        new Point( x: (int)prediction.x+prediction.width,
                                y: (int)prediction.y+prediction.height),

                        new Scalar(0,0,0), thickness: 2);

            }
```

```
    Imgproc.putText(mat,  text: ""+root.predictions.size(),
            new Point( x: mat.cols() /2 ,  y: mat.rows()/25 ),
            fontFace: 3,  fontScale: 5, new Scalar(0, 255, 255));
      Configs.convertMatToImage(mat);
      reader.close();
  } catch (Exception e) {
      e.printStackTrace();
  } finally {
      if (connection != null) {
          connection.disconnect();
      }
  }
```