Robot

- net_input_shape : vector<int> = [416, 416]
- transformation_matrix : vector <double>
- pixel to meter : double
- area to depth : double
- + detectHumans(): int
- prepFrame(vector<Mat>, vector<int>) : vector<Mat>
- transformToRobotFrame(vector<double>, vector<double>, double, double) : vector<double

HumanDetector

- path_to_model_weights : string
- path_to_model_congfiguration : string
- confidence threshold : double
- nms threshold : double
- + detection(Net) : vector<Mat>
- + postProcess(vector<Mat>, vector<Mat>) : vector<Rect>
- + drawBoundingBoxes(int, vector<double>, vector<double>, vector<Mat>): int

Note:

Mat, Rect and Net are composite datatypes used from OpenCV packages