HOG

HOG stands for Histogram of Oriented Gradients.

here distribution of intensity gradients will define the appearance and shape of objects.

This is based on the HOG (**Histogram of Oriented Gradients**) feature descriptor with a linear SVM machine learning algorithm to perform face detection. HOG is a simple and powerful feature descriptor. It is not only used for face detection but also it is widely used for object detection like cars, pets, and fruits.