

# Lane Line Detection System In Python Using OpenCV

**Reshma PR<sup>1</sup> and Shyma Kareem<sup>2</sup>**

Student, Department of Computer Applications<sup>1</sup>

Assistant Professor, Department of computer Applications<sup>2</sup>

Musaliar College of Engineering and Technology, Pathanamthitta, Kerala, India

**Abstract:** Lane line detection is a critical component of autonomous driving systems and advanced driver assistance systems (ADAS). The Lane line detection system is implemented in Python and uses computer vision OpenCV. The technology was developed to recognize and detect road lane lines in order to guide and assist drivers. It developed a processing pipeline that works on a series of individual images and applied the result to a video stream.

**Keywords:** OpenCV (open source computer vision), lane detection, Hough transform, Canny edge detection

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