

ARCH TECHNOLOGIES

Sharpening your hidden skills for a brighter future

Computer Vision

Computer vision involves learning techniques to enable computers to interpret and process visual data from images or videos, using tools like OpenCV and frameworks like TensorFlow or PyTorch. You'll learn concepts like image processing, feature detection, object recognition, and deep learning for tasks such as facial recognition or autonomous driving. It equips you to build systems that analyze and understand visual information for applications in robotics, healthcare, and more.

Task 1: Face Mask Detection

Build a computer vision model that can detect whether a person is wearing a face mask or not using a dataset of labeled images. Preprocess the images, train a convolutional neural network (CNN) for classification, and evaluate its accuracy on test images.

Task 2: Traffic Signs Recognition

Using a dataset of traffic sign images, build a computer vision model to recognize and classify different traffic signs such as stop, yield, or speed limit signs. Preprocess the images, train a convolutional neural network (CNN), and evaluate its accuracy in correctly identifying the signs.

Submission Details:

- Make a ZIP or RAR file of the Code or any related things (if any), or share a GitHub repository link. Email it to submissions.archtech@gmail.com before the 27th of this month.
- For any technical queries or challenges faced during task completion, Email your questions to queries.archtech@gmail.com Our team will do our best to assist you.