K. K. Wagh Institute of Engineering Education & Research, Nashik
Department of Computer Engineering

Human Activity Recognition – DMW Mini Project

Course – Data Mining and Warehousing

Abstract:

In principle, activity recognition can be exploited to great societal benefits, especially in real-life, human centric applications such as elder care and healthcare. This project is focused on recognizing simple human activities. Recognizing complex activities remains a challenging and active area of research and the nature of human activities poses different challenges. Human activity understanding encompasses activity recognition and activity pattern discovery. The first focuses on accurate detection of human activities based on a predefined activity model. An activity pattern discovery researcher builds a pervasive system first and then analyzes the sensor data to discover activity patterns.

First we import the HAV Dataset and then use the KNN classification algorithm. For the purpose of personal activity recognition, the HAV dataset contains 8192 entries, each with 561 attributes. We are using train to test ratio of 7:3.

Project Members:

Ashutosh Bhawsar - 29

Ninad Kapadnis - 30

Devashish Katoriya - 31

Bhushan Shilawat - 32