Guided Projects Artificial Intelligence & Machine Learning

Guided Projects: Unsupervised Learning

Human Activity Recognition from Smart Phone Data

Recognizing human activities from **temporal streams** of sensory data observations is a very important task on a wide variety of applications in **context recognition**. Human activities are **hierarchical in nature**, i.e. the **complex activities** can be decomposed to several simpler ones. Human activity recognition is the problem of **classifying sequences of accelerometer** data recorded by pre-installed sensors in **smart phones** into known **well-defined movements** to make it ready for **predictive modelling**.

Question:

Perform activity recognition on the dataset using a hidden markov model. Then perform the same task using a different classification algorithm (logistic regression/decision tree) of your choice and compare the performance of the two algorithms

Dataset Link: Human Activity Recognition with Smartphones

https://www.kaggle.com/uciml/human-activity-recognition-with-smartphones