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# Artificial Intelligence

The artificial intelligence is intelligence demonstrated by computer. AI is when the machine has the ability to feel and understand the environment and react according to the stimulus provided to achieve a certain goal. The machine has the cognitive function of learning speech recognition, planning and problem solving. Through this continuous process the machine becomes more and more capable of making the right decision. The decisions made are more accurate with due course of time. The learning is often referred as the training. The training initially can be supervised or unsupervised. In supervised learning the machine learns from the historical data provided by us and it's access is restricted to only that data. Whereas in the unsupervised training method the AI creates its own pattern.

The AI application are broadly considered in 3 categories:

* Cognitive Science Applications
* Robotics Applications
* Natural Interface Applications

In the proposed solution we are planning on the segregation of waste in the dustbin which will give insight to the AI using the sensors these have to be given in every dustbin where the robotic arm shall recognize the type of waste i.e: wet and dry waste. The wet waste is generally biodegradable and gets degraded within weeks. but the dry waste is generally as in Vaari will be the plastic items which don’t get degraded into the soil. Thus they have certain properties which can be analysed by the AI which will further make the machine segregate the waste accurately. The AI shall be trained in supervised environment where there will be an instructor to correct the AI.