

**ANDROID THINGS VIDEO SUMMARY**

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1. **Machine Learning Flowers**

In this video, the developers wanted to build something to showcase the power of technology and **android things,** by building an interactive garden.

Android things make it easier to make experimental devices based on Machine Learning in a rapid way.

The garden is made up of “**emotional flowers**”, which reacts according to the facial expression of the user. To make it possible to detect the faces, a **camera** was placed in the centre of the flowers which detects faces. When a face is detected, an algorithm which controls the motor determines what the flower does and which colour to emit based on the user’s facial expression.

The stem of the flowers was made of **copper pipes,** but later changed to a **flex cable** to make the movement easier and more realistic.

To avoid lags which may occur when the device connects to the cloud, on-device processing was used.

Face recognition library from Google was used to recognise faces. A neural network then makes a prediction of your emotion and then the flower reacts.

This ideology can be used to create recreational parks for kids and aged people.

1. **Wearable device for tracking**

**Byteflies** uses android things technology to track people at home through their wearable device offering them the services they would be receiving at the hospital.

Android things is used because of the existing platforms, its high security, privacy and updates.

A user wears the device through the day and once it is plugged into the docking station, it is connected automatically to the cloud and the data collected through the day is processed and analysed. The device can be easily updated.

Based on this technology, a user’s health is being monitored on daily basis and any anomaly in the system can be easily identified and treated.