AAGS- lets green IT!

<u>Introduction:</u>

India is a country of farmers and orchards. Indian agriculture sector accounts for 18 per cent of India's GDP and provides employment to 50% of the country's workforce. India is the world's largest producer of pulses, rice, wheat, spices and spice products. India has emerged as the second largest producer of fruits and vegetables in the world. India is an agriculture based country, where more than 50% of population is dependent on agriculture. This structures the main source of income. The commitment of agribusiness in the national income in India is all the more, subsequently, it is said that agriculture in India is a backbone for Indian Economy. On the other hand, Indian agribusiness is confronting issues, for example, low level of business sector reconciliation and integration, availability of dependable and convenient information needed by farmers on different issues in farming.

With the recent development of digitalisation of India, all parts of the nation are getting connected via the internet. With digital India schemes and ease of access of internet even in rural areas, internet has become a common luxury. Yet, Indian farmers are left behind in this modern era of internet. We at AGGA strive to change this. Using modern tools like Internet of Things (IoT), Our vision is to digitalise and modernize this industry by making the jobs of the farmers easier and providing such solutions at economical rates. Our motive is to strive to bring about a new green revolution in the Indian Argo industry using IT.

<u>Our Idea:</u>

Ever wondered if it was possible to have a Jarvis of your own that carry out all your work and reports back to you as a personal assistant? Yeah right? Imagine how useful it would be to you! Now imagine we give this to farmers! How much easier would their lives become if everything was

automated and or someone told them when, what and how to do their work..
We present to you the Jarvis of agriculture!

Some of the features included in our current prototype include:

1) Dynamic Watering.
2) Automated Pesticide.
3) Silo Monitor.
4) Water Tank Monitor.
5) Electric Fence Control.
6) Humidity and Temperature.
7) Suggestions of Which Crop to Plant and When and in What Quantities.

Farmers can access real-time information about all the data on their palms in their devices! Now a part of farming can be done at the tap of a button! For instance you can determine the amount of pesticide to be sprayed on your phone itself! We intend to use the IoT platform **Thingspeak** to make our project.

Our Future Plans:

Being Freshers with insufficient knowledge about Agriculture as well as IoT, we used Thingspeak. We look forward to working on other methods and hopefully create our own platform to sustain the device and develop on our idea by adding and supporting more features.

We hope you liked our idea!