**Team ID: PNT2022TMID09738**

**Project Name: SmartFarmer - IoT Enabled Smart Farming Application**

LITERATURE SURVEY

# SUMMARY OF LITERATURE SURVEY

One of the important applications of Internet of Things is Smart agriculture. Smart agriculture reduces wastage of water, fertilizers and increases the crop yield. In the current agriculture system the specification such as temperature, moisture, humidity are detected manually which increases the labor cost, time and also monitoring cannot be done continuously. In this paper irrigation process is done automatically using different sensors which reduces the manual labor. Here a system is proposed to monitor crop-field using sensors for soil moisture, humidity and temperature. By monitoring all these parameters the irrigation can be automated.

### **1.2 SmartFarmer - IoT Enabled Smart Farming Application Framework**

* IoT-based agriculture system helps the farmer in monitoring different parameters of his field like soil moisture, Temperature, humidity using some sensors.
* Farmers can monitor all the sensor parameters by using a web or mobile application even if the farmer is not near his field. Watering the crop is one of the important tasks for the farmers.
* They can make the decision whether to water the crop or postpone it by monitoring the sensor parameters and controlling the motor pumps from the mobile application itself.

Shweta A M, Dr V. Nagaveni (2019). Survey on Smart Agriculture Using IOT, Journal of Computer Programming and Multimedia, 4(1), 6- 15 http://doi.org/10.5281/zenodo.257985

* **JOB RECOMMENDATION BASED ON JOB SEEK** IoT-based agriculture system helps the farmer in monitoring different parameters of his field like soil moisture, Temperature, humidity using some sensors.
* Farmers can monitor all the sensor parameters by using a web or mobile application even if the farmer is not near his field. Watering the crop is one of the important tasks for the farmers.
* They can make the decision whether to water the crop or postpone it by monitoring the sensor parameters and controlling the motor pumps from the mobile application itself.
  1. **ER SKILLS: AN EMPIRICAL STUDY**

In the last years, job recommender systems have become popular since they successfully reduce information overload by generating personalized job suggestions. The contributions of this work are twofold, we:

* + - It made publicly available a new dataset formed by a set of job seekers profiles and a set of job vacancies collected from different job search engine sites.
    - It forwards the proposal of a framework for job recommendation based on professional skills of job seekers.

This article was published in March 2018 and authors of this article are: **Jorge Valverde-Rebaza Ricardo Puma Paul Bustios Nathalia C. Silva.**

* 1. **RECOMMENDER SYSTEMS: A SURVEY**

This concept can be implemented in a real greenhouse for growing good agricultural produce which can be of export quality. The system will take care of automatic irrigation control and various parameters of the greenhouse can be monitored like Temperature, Humidity and Soil Moisture. The Android Application form the user interface and to record the parameter details we use an application server module. This recorded data can be used for analysis and help in taking decisions.This article was published in March 2019 and authors of this article are' **Juhi Dhameliya Nikita Desail**

# JOB RECOMMENDATION SYSTEM USING MACHINELEARNING AND NATURAL LANGUAGE

**PROCESSING**

This domain is the Hiring process, where a job seeker applies to a job bycreating a profile on a job portal by providing all his/her work preferences. These work preferences of each user can be collected from each user and provide job recommendations based on their preference. Data acquired for ourstudy has no previous interaction between the user data and Job listing data. With such a dataset, we have addressed the issue of cold start from both User and Job perspective.

This article was published in May 2020 and authors of this article are: **Harsh Jain.**

# JOB RECOMMENDATION SYSTEM IN PHP

This research aims to develop a job web portal for the students in the Faculty of Computer Science and Information Technology (FCSIT), University of Malaya (UM). The main aims of this portal are to connect to the industries and acts as an online recruitment to support the students to find the right IT job after graduation. Furthermore, this system enhances the understanding concept and importance of the job portal for students in the universities. A survey wasconducted to identify the students’ problems with the existing portal of the faculty and to gather their requirements which can be incorporated in to the portal to be developed.

This article was published in Jan 2021 and authors of this article are:

# Gupta, L Rothkrantz.