

Ideation Phase
LITERATURE SURVEY

Date	18 September 2022
Team ID	PNT2022TMID20403
Project Name	ESTIMATE THE CROP YIELD USING DATA ANALYTICS

1) TITLE OF PAPER: ANALYSIS OF CROP YIELD PREDICTION USING DATA MINING TECHNIQUES

AUTHOR: B Vishnu Vardhan

YEAR:2015

ABSTRACT: Agriculture is the backbone of Indian Economy. In India, majority of the farmers are not getting the expected crop yield due to several reasons. The agricultural yield is primarily depending on weather conditions. Rainfall conditions also influences the rice cultivation. In this context, the farmers necessarily require a timely advice to predict the future crop productivity and an analysis is to be made in order to help the farmers to maximize the crop production in their crops.

2) TITLE OF PAPER: The use of satellite data for crop yield gap analysis

AUTHOR: David B. Lobell

YEAR:2013

ABSTRACT: Discussed the use of remote sensing technology to identify and measure the causes of yield gaps and the assess the impact on the overall crop yield. Reported very simple methodologies to measure the yield difference with respect to season, environment and the land use.

3) **TITLE OF PAPER:** Toward large-scale crop production forecasts for global food security

AUTHOR: G. Badr L. J. Klein

YEAR: 2016

ABSTRACT: Predicting crop production plays a critical role in food price forecasting and mitigating potential food shortages. Crop models may require parameters from, for example, weather, crop genotype, farm management, and soil. Sources for these data are often found in very different places. Researchers spend a significant amount of time to collect and curate them

4) **TITLE OF PAPER:** Robust Model Predictive Control of Irrigation Systems With Active Uncertainty Learning and Data Analytics

AUTHOR: Chao Shang , Wei-Han Che

YEAR: 2019

ABSTRACT: We develop a novel data-driven robust model predictive control (DDRMPC) approach for automatic control of irrigation systems. The fundamental idea is to integrate both mechanistic models, which describe dynamics in soil moisture variations, and data-driven models, which characterize uncertainty in forecast errors of evapotranspiration and precipitation, into a holistic system framework.

5) **TITLE:** Migration-Based Online CPSCN Big Data Analysis in Data Centers

AUTHOR: Xin li, Liangyuan Wangi , Zhen Lian

YEAR: February 28, 2018

ABSTRACT: It is critical to schedule online data-intensive jobs effectively for various applications, including cyber-physical-system and social network system. It is also useful to support timely decision making and better prediction. In this paper, we investigate the online job scheduling problem with data migration for global job execution time reduction