BEST CROP PREDICTION

A Industrial/Practical Training project report

Submitted to the Faculty of Engineering of
JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA, KAKINADA

In partial fulfillment of the requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY
In
COMPUTER SCIENCE AND ENGINEERING

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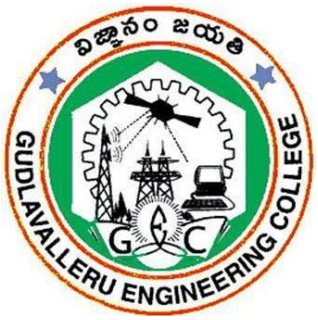

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

GUDLAVALLERUENGINEERINGCOLLEGE
(An Autonomous Institute with Permanent Affiliation to JNTUK, Kakinada)
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2019-2020

GUDLAVALLERU ENGINEERING COLLEGE

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DEPARTMENT OF
COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE

This is to certify that the Industrial/Practical Training project Report entitled "**BEST CROP PREDICTION**" is a bonafide record of work carried out by **A.GEETHIKA, D.NAVYA, A.HUSSAIN and A.RAMBABU** in partial fulfillment of the requirements for the award of the degree of **Bachelor of Technology** in **Computer Science and Engineering of Jawaharlal Nehru Technological University Kakinada**, **Kakinada** during the academic year 2019-2020.

SK.SALMA BEGUM

(Industrial/Practical Training Coordinator)

SMARTBRIDGE
Let's Bridge the Gap

INTERNSHIP REPORT APPROVAL FORM

May 24, 2019

With immense pleasure, this is to approve that the students of Gudlavalleru Engineering College i.e,

Geethika Arja(16481A0512),
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Hussain Akumalla(16481A0506) and
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successfully completed their Project and Project Report on **"Best Crop Prediction"** under our guidance.
We are highly impressed with the work that they have done and commend them on their quick grasping skills. They have shown good intent to learn and have put the knowledge gained into application in the from of this project. We appreciate the hard work and commitment shown by them.
We, hereby approve that this document is completely checked and accepted by SmartBridge Technical Team. Its been an absolute pleasure to educate and mentor these students. We hope that this document will also serve as a Letter of Recommendation, to whomsover applied.

We wish them success in all future endeavors and a great career ahead.

Akshay kumar Kothuri
AI and IOT Developer

ACKNOWLEDGEMENT

The satisfaction that accompanies the successful completion of any task would be incomplete without the mention of people who made it possible and whose constant guidance and encouragements crown all the efforts with success.

We feel elated to express our floral gratitude and sincere thanks to **Dr.S.Narayana**, Head of the Department, Computer Science and Engineering for his encouragements all the way during analysis of the project. His annotations, insinuations and criticisms are the key behind the successful completion of the project work.

We would like to take this opportunity to thank our beloved principal **Dr.P.Ravindra Babu**for providing a great support for us in completing our project and giving us the opportunity for doing project.

We would like to take this opportunity to thank Smart Bridge Educational Services PVT Ltd. for providing this training program and support for us in completing our project.

Our Special thanks to the faculty of our department and programmers of our computer lab. Finally, we thank our family members, non-teaching staff, attendants and our friends, who had directly or indirectly helped and supported us in completing our project in time.

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ABSTRACT

Earlier yield prediction was performed by considering the farmer's experience on a particular field and crop. However, as the conditions change day by day very rapidly, farmers are forced to cultivate more and more crops. So, to overcome the poor interpretation of climatic conditions which has resultant into poor recommendation of crops, thus leading to poor crop yields and micro nutrient deficiencies. Being this as the current situation, many of them don't have enough knowledge about the new crops and are not completely aware of the benefits they get while farming them. Also, the farm productivity can be increased by understanding and forecasting crop performance in a variety of environmental conditions. Agriculture growth also depends on Soil moisture, Surface temperature and also on weather aspects which include temperature, rainfall, etc. Weather forecast data obtained from IMD (Indian Metrological Department) such as temperature, humidity and rainfall. This provides a farmer with variety of options of crops that can be cultivated. Thus, the project develops a system by integrating data from various sources, data analytics, prediction analysis which can improve crop yield productivity and increase the profit margins of farmers. By taking temperature, humidity, rainfall as a parameters we predict the best crop which gives best yield and profit to the farmers.

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