

Final Deliverable

Date	11 November 2022
Project Name	Estimate the Crop Yield Using Data Analytics
Team ID	PNT2022TMID07696

Web Page Codings:

Index code:

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C:\Users\srinivasan\Documents\new\index.html - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help

index.html x ABSTRACT.html x dashboard.html x exploration.html x report.html x story.html x

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</style>
<body>
  <li><a href="ABSTRACT.html">ABOUT MY PROJECT</a></li><br>
  <h1 style="text-align: center">DATA ANALYTICS (PNT2022TMID07696)</h1>
  <h1 style="text-align: center; color: wheat; background-color: brown;">ESTIMATE THE CROP YIELD USING DATA ANALYTICS</h1>
  <h1 style="text-align: center; color: green; background-color: yellowgreen; border-radius: 100px; border-radius: 70px;">DASHBOARD</h1>
  <h1 style="text-align: right; color: white">TEAM MEMBERS</h1>
  <h1 style="text-align: right; color: white">S.srinivasan</h1>
  <h1 style="text-align: right; color: white">E.kanagasabapathi</h1>
  <h1 style="text-align: right;">S.pragatheshwari</h1>
  <h1 style="text-align: right;">R.rithish mani</h1>
  <h1 style="text-align: right;">S.sathish kumar</h1>

  <h1><strong>
    <a style="color: black" href="dashboard.html" target="box">dashboard</a>
    <a style="color: black" href="exploration.html" target="box">exploration</a>
    <a style="color: black" href="report.html" target="box">report</a>
    <a style="color: black" href="story.html" target="box">story</a><br>
    <a style="color: black" href="https://www.ibm.com/in-en/products/cognos-analytics" target="box">IBM Cognos Analysis Login Page</a>
  </strong>
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</body>
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Dashboard Page code:

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1 <!DOCTYPE html>
2 <html>
3   <body>
4     <h1 style="text-align: center; color: green; background-color: yellowgreen; border-radius: 100px; border-radius: 70px;">DASHBOARD</h1>
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6     <li><a href="index.html">HOME PAGE</a></li><br>
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13   <p>
14     <style>
15       fieldset{
16         background-image: url(https://blog.ucsusa.org/wp-content/uploads/2016/07/22559646902_07Fd41ab0c_z.jpg);
17         background: cover;
18       }
19     </style>
20     <fieldset style="background-color: grey; border-radius: 50px;">
21
22       <form style="text-align: center;">
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24         <p><strong><i>
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30         </i></strong></p>
31         <br><br><br><embed src="https://us1.ca.analytics.ibm.com/bi/?perspective=dashboard&pathRef=.my_folders%2Fsrini.1%2FDashboa
32         rd%2Bcreation.crop_production.xlsx&action=view&mode=dashboard&subView=mode1000001844653eabd_00000001" width="600" height="
33         500"><br><br><br><br>
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35         <a href="https://colab.research.google.com/drive/17uwPAeCBP51rXo_F6r-TLgiI0VUuLKlj#scrollTo=cir3o_PrvfyX">
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Exploration Page code:

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File Edit Selection Find View Goto Tools Project Preferences Help

index.html x ABSTRACT.html x dashboard.html x exploration.html x report.html x story.html x

1 <!DOCTYPE html>
2 <html>
3   <body>
4     <h1 style="text-align: center; color: black; background-color: green; border-radius: 100px; border-radius: 70px;">EXPLORATION</h1>
5
6     <li><a href="index.html">HOME PAGE</a></li><br>
7
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13   <p>
14     <style>
15       fieldset{
16         background-image: url(https://blog.ucsusa.org/wp-content/uploads/2016/07/22559646902_07Fd41ab0c_z.jpg);
17         background: cover;
18       }
19     </style>
20     <fieldset style="background-color: grey; border-radius: 50px;">
21
22       <form style="text-align: center;">
23
24         <p><strong><i>
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31         </i></strong></p>
32         <br><br><br><embed src="https://us1.ca.analytics.ibm.com/
33         bi/?perspective=explore&pathRef=.my_folders%2FNew%2Bexploration&subView=model000001846d325aeb_00000000" width="600"
34         height="500"><br><br><br><br>
35
36         <a href="https://colab.research.google.com/drive/1ZHxYuFTYzErD3x0mbV0f_8oQmEyy85Gh">
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C:\Users\srinivasancse\Documents\new\exploration.html - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help

index.html x ABSTRACT.html x dashboard.html x exploration.html x report.html x story.html x

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24   <form style="text-align: center;">
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26     <p><strong><i>
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32     <br><br><br><embed src="https://us1.ca.analytics.ibm.com/
33     bi/?perspective=explore&pathRef=.my_folders%2FNew%2Bexploration&subView=model000001846d325aeb_00000000" width="600"
34     height="500"><br><br><br><br>
35
36     <a href="https://colab.research.google.com/drive/1ZHxYuFTYzErD3x0mbV0f_8oQmEyy85Gh">
37       <button style="background-color: olivedrab; border-radius: 30px; " type="google colab">google colab</button><p style
38       =" color: white">CLICK HERE TO VIEW CODE</p></a></p>
39
40     <a href="https://us1.ca.analytics.ibm.com/
41     bi/?perspective=explore&pathRef=.my_folders%2FNew%2Bexploration&subView=model000001846d325aeb_00000000">
42       <button style="background-color: olivedrab; border-radius: 30px;" type="ibm cognos analytics with watson"> IBM
43       cognos analytics with watson</button><p style=" color: white">CLICK HERE TO VIEW EXPLORATION IN COGNOS</p></a>
44
45     </form>
46   </fieldset>
47 </p>
48 </body>
49 </html>
```

Report Page code:

```
C:\Users\srinivasancse\Documents\new\report.html - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help

index.html x ABSTRACT.html x dashboard.html x exploration.html x report.html x story.html x

1 <!DOCTYPE html>
2 <html>
3   <body>
4     <h1 style="text-align: center; color: black; background-color: green; border-radius: 100px; border-radius: 70px;">REPORT</h1>
5
6     <li><a href="index.html">HOME PAGE</a></li><br>
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13   <p>
14     <style>
15       fieldset{
16         background-image: url(https://blog.ucsusa.org/wp-content/uploads/2016/07/22559646902_07Fd41ab0c_z.jpg);
17         background: cover;
18       }
19     </style>
20     <fieldset style="background-color: grey; border-radius: 50px;">
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24       <form style="text-align: center;">
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32         bi/?perspective=explore&pathRef=.my_folders%2FNew%2Bexploration&subView=model000001846d325aeb_00000000" width="600"
33         height="500"><br><br><br></p>
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Story Page code:

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index.html x ABSTRACT.html x dashboard.html x exploration.html x report.html x story.html x

1 <!DOCTYPE html>
2 <html>
3   <body>
4     <h1 style="text-align: center; color: black; background-color: green; border-radius: 100px; border-radius: 70px;">STORY</h1>
5
6     <li><a href="index.html">HOME PAGE</a></li><br>
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13     <p>
14       <style>
15         fieldset{
16           background-image: url(https://blog.ucsusa.org/wp-content/uploads/2016/07/22559646902_07Fd41ab0c_z.jpg);
17           background: cover;
18         }
19       </style>
20       <fieldset style="background-color: grey; border-radius: 50px;">
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22         <form style="text-align: center;">
23
24           <p><strong><i>
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30           </i></strong></p>
31           <br><br><br><embed src="https://us1.ca.analytics.ibm.com/
32             bi/?perspective=story&pathRef=.my_folders%2FNew%2Bstory&action=view&sceneId=model000001846eaf8e42_00000001&sceneTime=5000
33             " width="600" height="500"><br><br><br><br>
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Abstract Page code:

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1 <!DOCTYPE html>
2 <html>
3   <body>
4     <h1 style="text-align: center; color: black">ESTIMATE THE CROP YIELD USING DATA ANALYTICS</h1>
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7     <li><a href="index.html">HOME PAGE</a></li><br>
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9     <h1 style="color: black">ABSTRACT:</h1>
10
11     <p>Agriculture is important for human survival because it serves the basic need. A well-known fact that the majority of
12 population (>55%) in India is into agriculture. Due to variations in climatic conditions, there exist bottlenecks for
13 increasing the crop production in India. It has become challenging task to achieve desired targets in Agri based crop yield.
14 Various factors are to be considered which have direct impact on the production, productivity of the crops. Crop yield
15 prediction is one of the important factors in agriculture practices. Farmers need information regarding crop yield
16 before sowing seeds in their fields to achieve enhanced crop yield. The use of technology in agriculture has increased in recent
17 year and data analytics is one such trend that has penetrated into the agriculture field. The main challenge in using big data
18 analytics is identification of effectiveness of big data analytics. Efforts are going on to understand how big data
19 analytics can agriculture productivity. The present study gives insights on various data analytics methods applied to
20 crop yield prediction and also signifies the important lacunae points' in the proposed area of research.</p><br>
21
22     <h1 style="color: black">INTRODUCTION:</h1>
23
24     <p>Agriculture forms the basis for food security and hence it is important. In India, majority of the population i.e., above
25 55% is dependent on agriculture as per the recent information. Agriculture is the field that enables the farmers to grow ideal
26 crops in accordance with the environmental balance. In India, wheat and rice are the major grown crops along with sugarcane,
27 potatoes, oil seeds etc. Farmers also grow non-food items like rubber, cotton, jute etc. More than 70% of the household in the
28 rural area depend on agriculture. This domain provides employment to more than 60% of the total population and has a contribution
29 to GDP also (about 17%) [1]. In the farm output, India ranks second considering the world wide scenario. This is the widest
30 economic sector and has an important role regarding the framework of socio-economic fabric of India. Farming depends on various
31 factors like climate and economic factors like temperature, irrigation, cultivation, soil, rain fall, pesticide and
32 fertilizers. Historical information regarding crop yield provides major input for companies engaged in this domain. These
33 companies make use of agriculture products as raw materials, animal feed, paper production and so on. The estimation
34 of production of crop helps these companies in planning supply chain decision like production scheduling. The industries such
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23 factors like climate and economic factors like temperature, irrigation, cultivation, soil, rain fall, pesticide and
24 fertilizers. Historical information regarding crop yield provides major input for companies engaged in this domain. These
25 companies make use of agriculture products as raw materials, animal feed, paper production and so on. The estimation
26 of production of crop helps these companies in planning supply chain decision like production scheduling. The industries such
27 as fertilizers, seed, agrochemicals and agricultural machinery plan production and activities like marketing based on the estimates
28 of crop yield [2]. Farmers experience was the only way for prediction of crop yield in the past days. Technology penetration into
29 agriculture field has led to automation of the activities like yield estimation, crop health monitoring etc. Crop yield prediction
30 has generated a lot interest in the research community and also for agriculture related organizations. Crop yield prediction helps
31 the farmers in various ways by providing the record of previous crop yield. This is helpful to government in framing policies
32 related to crops such as crop insurance policies, supply chain operation policies. Knowing what crops has been grown, and how much
33 area of it had been shown historically, combined with the prices at which it could have been sold at the nearest market-place
34 provides the income-growth profile of the farmer [3]. Agriculture sector is struggling to increase the productivity of crop in
35 India. Monsoon rainfall is the main source of water for more than 60 percent of the crops. Smart agriculture driven
36 by Information Technology is the emerging trend in the research in this area in recent days. One of the areas being explored is
37 the problem of yield prediction which is a major concern. Data mining techniques are being widely used as a part of solution
38 for crop yield prediction. Various data mining techniques are under evaluation for estimation of crop production of the
39 future years [4]. Data mining is the process in which the hidden patterns are discovered using analysis of large data sets. The
40 data mining and data analytics techniques use artificial intelligence, statistics, machine learning and database system. In data
41 mining, unsupervised and supervised methods are being used. In unsupervised learning, clusters are formed using large data sets and
42 in supervised learning classification are done based on the data sets. In clustering technique, 'data points' are examined to group
43 them into 'clusters' according to specific parameter. The data points in same cluster have less distance compared to data points
44 of different clusters. The analysis of the cluster divides data into well organized groups. The natural structure of the data
45 is captured by these well-formed groups [3, 4].
46 This survey focuses on various methods being used for crop yield prediction. The methods being used are Density based
47 clustering techniques, Multiple Linear regression, Clustering large applications (CLARA), Partitioning around Medoids (PAM)
48 and density based clustering algorithm called DBSCAN.</p>
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