



HANDS ON MEDICATION USING DATA VISUALISATION TOOL

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Abstract: Tableau is a Data Visualization tool that is extensively used for Business Intelligence but it is not limited to it. This can also be used to provide information about medicines to people. It helps to craft interactive graphs and charts in the form of dashboards and worksheets which helps individuals to understand in an effective way. And all of this is made probable with gesticulation as easy as drag and drop! It helps people to know in detail about the diseases and its symptoms, first-aid and safety measures are provided so that they can be medicated easily within the reach of the people. If there is any serious issue or drastic symptoms of the diseases the top doctors for the particular diseases in the city with their details plotted in a map view so that the patient can concern a doctor. This information is very much useful for each and every individual and health sector.

Keywords: A Data Visualization, Tableau, first-aid, health

I. INTRODUCTION

Many people suffer from different types of diseases that they are not aware off. Before taking some medicines or any type of action on their suffering they must get the knowledge on the problem. They must have a clear idea on their condition. No one can just simply take whatever medicine they get without knowing the actual condition.

Through our scheme work "MEDICATION IN HANDS" we can know the symptoms of particular diseases before going to the doctor we can take necessary precautions and first-aid if necessary. We can consult the specialist for a particular disease with the help of the information provided in our project Medication in hands.

This application is meant for showing a particular to medication in hands

The main goal of this application is to get full fledged data about a particular place of hospital and people are medicated easily.

Some of the elements have been presented in this application, they are:

II. DATA COLLECTION

Our tableau project MEDICATION IN HANDS that helps each and every single person when they are in need to know about their health condition and what action they have to take for that condition. It consist of the symptoms, causes, disease name , first-aid that can be done at home, medicines recommended for that particular disease, approximate cost of the medicine, if any surgery required or not, if required what is it, cost of the surgery, doctors available for that disease treatment, doctors location, doctors contact number for appointment ,hospital location. This all data is helpful for each and every person in need.

Table I

S. No	Diseases	Symptoms	Causes
First-aid	Medicine	Safety measures	Surgery

Approx-surgery cost	Name of the doctor	Qualification	Hospital name
Contact number	Latitude	Longitude	Area

2.1 Datatypes for the Collected Attributes:

Fields and Datatypes

1. DISEASE = varchar
2. SYMPTOMS = varchar
3. CAUSES = varchar
4. FIRST-AID = varchar
5. MEDICINE = varchar
6. SAFETY EASURES= varchar
7. SURGERY = varchar
8. APPROX SURGERY COST=numeric
9. Name of the doctor= varchar
10. Qualification= varchar
11. Hospital Name= varchar
12. Contact number= numeric
13. latitude = numeric
14. longitude = numeric
15. area = varchar
- 16.Specialist = varchar

This tableau software consists of important tools such as file, dashboard, map and server.

DASHBOARD: A dashboard is a collection of several worksheets and supporting information shown in a single place so you can compare and monitor a variety of data simultaneously.

For example, you may have a set of views that you review every day. Rather than flipping through each worksheet, you can create a dashboard that displays all the views at once.

FILE: The new option will be used for creating a tableau file and load all the necessary attributes into it.

The tableau file will be saved with an extension “.tbls”. These files can be of various types of formats of data like Excel
Text file
Access
JSON file
Spatial file
Statistical file
More...

MAPS: The application need to visualize the data geographically, we can plot the data on a map in Tableau.

SERVER: Tableau Server public is the option where the tableau application is linked with the web application to get the information. The Tableau Software [1] is an online solution for sharing, distributing, and collaborating on content created in Tableau Shareable. Create workbooks and views, dashboards, and data sources in Tableau Desktop, and then publish this content to the server.

Contact number	latitude	longitude	area	Specialist
0866-2472000/0866-2448000/0866-2470283	16.583	80.439	Jayaprakash Nagar, Vijayawada	Heart specialist
0866-2611111	16.5175	80.6791	Ramaachandra Nagar, Vijayawada	Heart specialist
0866-2574757	16.5207	80.6319	Palakota Rd, Gopurpet, Vijayawada	Heart specialist
0866-2121119	16.5228	80.6393	Pudupada Hotel, Centre, Vijayawada	Heart specialist
0866-2453466	16.5138	80.6319	Chikla Durgaya Veedhi, Gopurpet, Vijayawada	Heart specialist
0866-2453400	16.5138	80.6317	Dornala Road, Suryapa Pet, Vijayawada	Kidney specialist
0866-2578984	16.5112	80.418	Beside police control room near bus stand, Vijayawada	Kidney specialist
0866-2453664	16.5133	80.6393	Palakota Road, Taccapalli Street, Suryapeta, Gopurpet, Vijayawada	Kidney specialist
0866-2463333	16.4956	80.7636	Near Sathappa Engg College, Ponnuri Road, Vijayawada	Kidney specialist
0866-2574757	16.5209	80.6319	Palakota Road, Gopurpet, Vijayawada	Kidney specialist
0866-2574757	16.5209	80.6319	Palakota Road, Gopurpet, Vijayawada	Kidney specialist
0866-2540702	16.4872	80.642	Kanuru, Vijayawada	Kidney specialist
0866-2463333	16.4957	80.7636	Near Sathappa Engg College, Ponnuri Road, Vijayawada	Kidney specialist
0866-4900113	16.5124	80.6319	Chikla Durgaya Veedhi, Gopurpet, Vijayawada	ENT Specialist
0866-4900113	16.5139	80.6319	Chikla Durgaya Veedhi, Gopurpet, Vijayawada	ENT Specialist
0866-2433234	16.5113	80.6346	Gandragada Road Street, Suryapeta, Vijayawada	ENT Specialist
0866-2574757/844053769	16.5188	80.6319	Palakota Rd, Gopurpet, Vijayawada	ENT Specialist
0866-2574757	16.5209	80.6319	Palakota Rd, Gopurpet, Vijayawada	ENT Specialist
0866-2547002	16.4872	80.642	Kanuru, Vijayawada	ENT Specialist
0866-2463333	16.4957	80.7636	Near Sathappa Engg College, Ponnuri Road, Vijayawada	ENT Specialist
0866-4900113	16.5124	80.6319	Chikla Durgaya Veedhi, Gopurpet, Vijayawada	ENT Specialist
0866-4900113	16.5139	80.6319	Chikla Durgaya Veedhi, Gopurpet, Vijayawada	ENT Specialist
0866-2463333	16.5077	80.674	Opposite IITC University of Health Sciences, Ganapathy Nagar, Vijayawada	Brain Specialist
0866-2463333	16.5076	80.636	Palakota Road, Suryapa Pet, Beside SBI Zone Office, Vijayawada	Brain Specialist
0866-2574757	16.5111	80.6319	Palakota Rd, Gopurpet, Vijayawada	Brain Specialist
0866-2574757	16.5111	80.6319	Palakota Rd, Gopurpet, Vijayawada	Brain Specialist

III. DATA PREPROCESSING

Latitude is an angle which ranges from 0° at the Equator to 90° (North or South) at the poles

Longitude is a geographic coordinate that specifies the east-west position of a point on the Earth's surface [2].

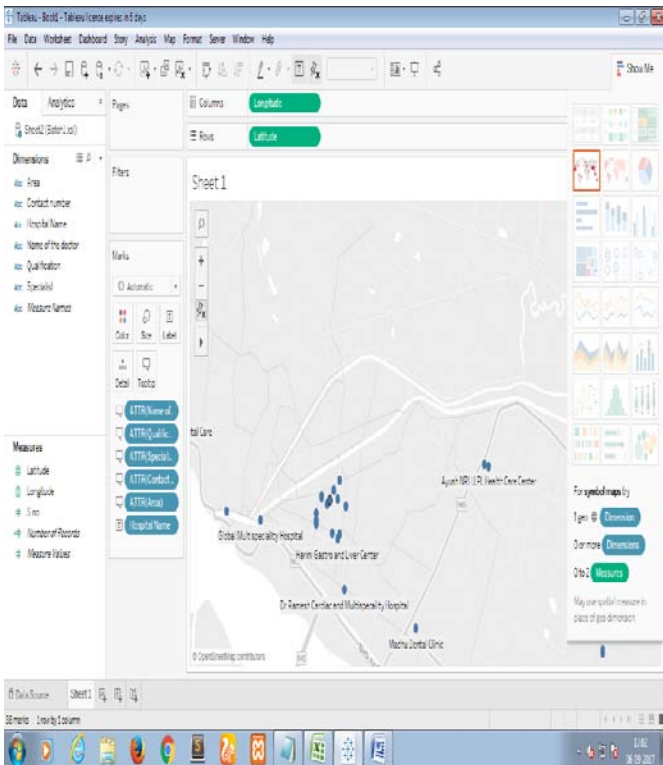
With the help of Latitude and Longitude we can spot a particular location of the specific doctor and hospital in the map[3].

S.No	Disease	Symptoms	Causes
1	CORONARY ARTERY DISEASE	Chest pain, Shortness of breath, heart attack	Smoking, high blood pressure, high cholesterol
2	CARDIOPULMONARY	Swelling of legs, ankles, feet, cough, wheezing, dizziness, fatigue, chest pain, dizziness	Genetic conditions, lung, or even high blood pressure
3	ANGINA	Chest pain or discomfort, shortness of breath, sweating, fatigue	Reduced blood flow to supply to heart, NOT get
4	VALVULAR HEART DISEASE	Shortness of breath, weakness or dizziness, rapid weight gain, discomfort in your chest	Heart valve tissue may degenerate with age
5	CONGENITAL HEART DISEASE	Abnormal heart rhythm, shortness of breath, dizziness, fainting, swelling of feet, ankles, or abdomen	Heart defect may run in families, increased
6	CEREBROVASCULAR DISEASE	tired, lack of energy, blood glucose level decreases.	vascular, slurred speech, trouble in seeing
7	PERIPHERAL HEART DISEASE	Chest pain, getting tired easily, swelling of the feet, fainting	Rheumatic fever results from an untreated
8	HEART ATTACK	pressure, tightness, abdominal pain, cold sweat, shortness of breath	Coronary artery can narrow from the build
9	HEART FAILURE	Shortness of breath, swelling of your abdomen, rapid or irregular heart beat	The pumping chambers of heart are not work
10	HEART FAILURE		
11	HEPATITIS TOXIC	yellowing of skin and whites of eyes, itching, abdominal pain, weight loss, loss of appetite, fatigue, bleeding easily, itchy skin, jaundice, swelling in legs, weight loss	Inflammation because of exposure to toxic substances
12	CIRRHOSIS	fatigue, pain in upper right abdomen, weight loss	when scar tissue formed in liver, genetic disease
13	FATTY LIVER	fatigue, pain in upper right abdomen, weight loss	trouble breaking down fat, high cholesterol
14	LIVER FAILURE	jaundice, abdominal swelling, vomiting, weakness, dizziness, confusion	accumulation of waste products, too much alcohol
15	HEPATITIS-A	jaundice, pain in belly, nausea, fever, darkening, fatigue	spread through virus, blood transfusion, liver failure and cancer
16	HEPATITIS-B	bleeding, bruising, itchy skin, weight loss, confusion, dark colored urine	viruses in our body
17	HEPATITIS-C	yellowing of skin and eyes, joint pain, vomiting, dark urine, fatigue	urine, vaginal fluids, semen, blood, breast
18	HEPATITIS-D		
19	KIDNEY DISEASE (Kidney)		
20	KIDNEY STONE	severe pain in side and back pain on urination, vomiting, fever and chills if an infection is present	urine contains more crystals-forming substance
21	ACUTE KIDNEY INJURY	shortness of breath, fatigue, chest pain, decreased urine output, drowsiness	blood flow decreased to kidney, uric acid
22	CHRONIC KIDNEY DISEASE	itching, abdominal pain, swelling of legs, hands, feet, or entire body	Infection with a specific strain of E.coli in blood
23	GLAUCOMA	Color vision defects, pain in the side, swelling in your hands and feet, high blood pressure	infection system attacking invading pathogens
24	CHRONIC KIDNEY DISEASE	itching, loss of appetite, sleep problems, changes in urine output, nausea, chest pain	high blood pressure, inflammation of kidney

Hospital Name	Contact number	latitude	longitude	area
Dr. Ramani Cardiac and Multi-specialty Hospital	0866-2472000/0866-2448000/0866-2470283	16.583	80.439	Jayaprakash Nagar, Vijayawada
Arundhathi Health Care Center	0866-2611111	16.5175	80.6791	Ramaachandra Nagar, Vijayawada
Amrita Hospital	0866-2574757	16.5207	80.6319	Palakota Rd, Gopurpet, Vijayawada
Suryapa Hospital	0866-2121119	16.5228	80.6393	Pudupada Hotel, Centre, Vijayawada
Vijaya Multi-specialty Hospital	0866-2453466	16.5138	80.6319	Chikla Durgaya Veedhi, Gopurpet, Vijayawada
Vijaya super specialty hospital	0866-2453400	16.5138	80.6317	Dornala Road, Suryapa Pet, Vijayawada
Global Multi-specialty Hospital	0866-2578984	16.5112	80.418	Beside police control room near bus stand, Vijayawada
Arundhathi Health Care Center	0866-2453664	16.5133	80.6393	Palakota Road, Taccapalli Street, Suryapeta, Gopurpet, Vijayawada
Arundhathi Health Care Center	0866-2463333	16.4956	80.7636	Near Sathappa Engg College, Ponnuri Road, Vijayawada
Arundhathi Health Care Center	0866-2574757	16.5209	80.6319	Palakota Road, Gopurpet, Vijayawada
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Arundhathi Health Care Center	0866-2463333	16.4957	80.7636	Near Sathappa Engg College, Ponnuri Road, Vijayawada
Arundhathi Health Care Center	0866-4900113	16.5124	80.6319	Chikla Durgaya Veedhi, Gopurpet, Vijayawada
Arundhathi Health Care Center	0866-4900113	16.5139	80.6319	Chikla Durgaya Veedhi, Gopurpet, Vijayawada
Arundhathi Health Care Center	0866-2433234	16.5113	80.6346	Gandragada Road Street, Suryapeta, Vijayawada
Arundhathi Health Care Center	0866-2574757/844053769	16.5188	80.6319	Palakota Rd, Gopurpet, Vijayawada
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Arundhathi Health Care Center	0866-4900113	16.5139	80.6319	Chikla Durgaya Veedhi, Gopurpet, Vijayawada
Arundhathi Health Care Center	0866-4900113	16.5177	80.674	Opposite IITC University of Health Sciences, Ganapathy Nagar, Vijayawada
Arundhathi Health Care Center	0866-2463333	16.5077	80.636	Palakota Road, Suryapa Pet, Beside SBI Zone Office, Vijayawada
Arundhathi Health Care Center	0866-2574757	16.5111	80.6319	Palakota Rd, Gopurpet, Vijayawada
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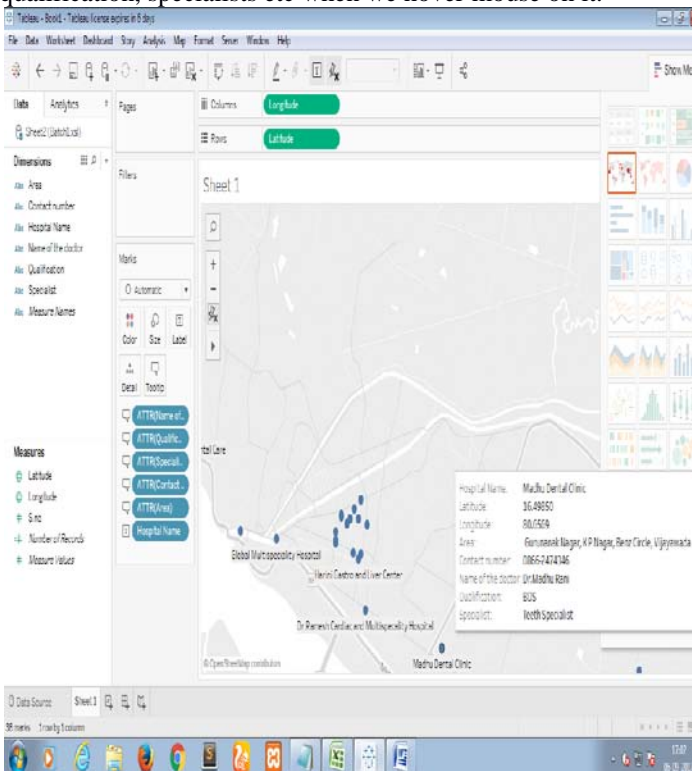
IV. EXPERIMENTAL RESULTS AND DATA VISUALIZATION

Over all display of hospitals and their names we specified in our project work [4,5] according to their locations using latitude and longitude



ID	Name of the doctor	Qualification	Hospital Name	Contact number	Latitude	Longitude	Area	Specialist
5	Dr A J Krishna Kumar	M.S, MCh	Andhra Hospital	0866-2574757	16.5180000	80.6200000	Prakash Road, Sive	Kidney
6	Dr P S Venkatesh	MD, DM (MIC), VLS (D)	Andhra Hospital	0866-2574757	16.5180000	80.6200000	Prakash Road, Sive	Kidney
7	Dr S Rev Shankar	MBBS, MD, VLS (D)	Nagaraja Hospital	0866-2493700	16.4844000	80.6240000	Kanuru, Vijayawada	Kidney
1	Dr P S A Murthy	MBBS, MS	Alagappa Super Special	0866-6660133	16.5130000	80.6170000	Tokpalai, Guntur Dist.	ENT Sp
2	Dr A Krishna Kumar	MBBS, MS (ENT)	Vijayawada Multi Spa...	0866-6660133	16.5130000	80.6230000	Chilukuru, Durgam Ch...	ENT Sp
3	Dr G Rajendra Prasad	MBBS, MCh, MS	Singh ENT Hospital L...	0866-2432324	16.5130000	80.6240000	Gowdapatnam, Warde...	ENT Sp
6	Dr T Sagar Chandra	MBBS, MS, ENT Surgeon	Andhra Hospital	0866-2574757-34416	16.5180000	80.6200000	Naikikara Rd, Govern...	ENT Sp
7	Dr M Venkatesh Reddy	MBBS, MS, ENT Surgeon	Andhra Hospital	0866-2574757	16.5180000	80.6200000	Naikikara Rd, Govern...	ENT Sp

Details of a particular hospital like hospital name, latitude, longitude, area, contact number, name of the doctor, qualification, specialists etc when we hover mouse on it.



Data sets in our project sheet2 using which we provided the information like contact number, latitude, longitude, area, specialist in our map

Contact number	latitude	longitude	area	Specialist
0866-2172000,0866-2484000,0866-2170200	16.510	80.659	Jayaprakash Nagar, Vijayawada	Heart specialist
0866-2211111	16.5175	80.675	Namachandras Nagar, Vijayawada	Heart specialist
0866-2574757	16.5107	80.619	Naikikara Rd, Government, Vijayawada	Heart specialist
0866-2318161	16.5128	80.669	Pudupet, Govt. Circle, Vijayawada	Heart specialist
0866-2493700	16.5136	80.619	Chilukuru Durgam Ch...	Heart specialist
0866-2435365	16.5136	80.675	Corralal Road, Suryasa, Pal, Vijayawada	Kidney specialist
0866-2578354	16.5112	80.612	pedda polli control room, near bus stand, vijayawada	Kidney specialist
0866-2405564	16.5135	80.693	Naikikara Road, Jagadishwar Street, Vijayawada, Government, Vijayawada	Kidney specialist
0866-2483933	16.4856	80.705	New Siddhartha Engg. College, Ponnuru Road, Vijayawada	Kidney specialist
0866-2474767	16.5108	80.612	Prakash Road, Government, Vijayawada	Kidney specialist
0866-2174257	16.5108	80.619	Prakash Road, Government, Vijayawada	Kidney specialist
0866-2557702	16.4872	80.692	Kanuru, Vijayawada	Kidney specialist
0866-2494700	16.4844	80.612	Tokpalai, Guntur District, Vijayawada	ENT specialist
0866-6660133	16.5136	80.619	Chilukuru Durgam Ch...	ENT specialist
0866-2105234	16.5118	80.619	Gowdapatnam, Naikikara Street, Suryasekhar, Vijayawada	ENT Specialist
0866-2474767	16.5108	80.619	Naikikara Rd, Government, Vijayawada	ENT Specialist
0866-2574757	16.5108	80.619	Naikikara Rd, Government, Vijayawada	ENT Specialist
0866-2557702	16.4874	80.692	Kanuru, Vijayawada	ENT specialist
0866-2461333	16.4937	80.705	New Siddhartha Engg. College, Ponnuru Road, Vijayawada	ENT specialist
0866-6660133	16.5134	80.619	Chilukuru Durgam Ch...	ENT Specialist
0866-6665966	16.5177	80.671	Coppala ITR, University of Health Sciences, Cunnery Nagar, Vijayawada	Brain Specialist
0866-2400480	16.5076	80.616	Prakash Road, Suryasa, Pal, Beside SB Zonal Office, Vijayawada	Brain Specialist
0866-2174757	16.5111	80.619	Naikikara Rd, Government, Vijayawada	Brain Specialist
0866-2574757	16.5111	80.619	Naikikara Rd, Government, Vijayawada	Brain Specialist

Snapshot of the diseases related to heart, liver, kidney and the information about the disease symptoms and their causes.

Detailed view of the doctors information in our sheet2 like doctors name, qualification, contact number, area, specialist, latitude longitude details of the hospital etc

S.NO	DISEASE	SYMPTOMS	CAUSES
1	CORONARY ARTERY DISEASE	Chest pain, Shortness of breath, heart attack	Smoking, high blood pressure, high cholesterol
2	CARDIOPULMONARY	Swelling of legs, Soreness of feet, Cough while lying down, Fatigue, Chest pain, Dizziness	Genetic conditions, Long term high blood pressure
3	ANGINA	Chest pain or discomfort, Shortness of breath, Sweating, Fatigue	Reduced blood flow (supply) to heart, Not a
4	VALVULAR HEART DISEASE	Shortness of breath, weakness or dizziness, Rapid weight gain, Discomfort in your chest	Heart valve tissue may degenerate with age
5	CONGENITAL HEART DISEASE	Abnormal heart rhythm, Shortness of breath, Dizziness or fainting, Swelling of tissues	Heart defect may run in families, increases
6	CORONARY VASCULAR DISEASE	Tall in chest, tingling of fingers, Blood glucose level decreases	High cholesterol, Clogged arteries, High blood pressure
7	RHEUMATIC HEART DISEASE	Chest pain, Getting tired easily, Swelling of the feet, Painning	Rheumatic fever results from an untreated
8	HEART ATTACK	pressure, tightness, abdominal pain, Cold sweat, Shortness of breath	Coronary artery can narrow from the build
9	HEART FAILURE	Shortness of breath, Swelling of your ankles, Rapid or irregular heart beat	The pumping chambers of heart are not w
10	HEART FAILURE	Shortness of breath, Swelling of your ankles, Rapid or irregular heart beat	The pumping chambers of heart are not w
11	HEPATITIS TOXIC	yellowing of skin and whites of eyes, Itching, abdominal pain, weight loss, tea-colored urine	Inflammation because of exposure to tox
12	HEPATITIS TOXIC	yellowing of skin and whites of eyes, Itching, abdominal pain, weight loss, tea-colored urine	Inflammation because of exposure to tox
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[5] Packtz, *Learning Tableau 10*, 4th edition, Joshua Milligan, 2017
 [6] Keet, *Tableau for health care*, Corporate reniassance group, 2015.

AUTHORS PROFILE



K. Varsha, presently studying in the Department of Information Technology branch in P.V.P Siddhartha Institute of Technology, Vijayawada, affiliated to Jawaharlal Nehru Technological University. She has given seminar on Apache Hadoop and Palm vein technology. She has attended workshop/seminars

on IOT, Cyber security, Python. She is currently working on the mini project Library management system. Her current research interests are Tableau, Big data.



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K. Vinay, presently studying in the Department of Information Technology branch in P.V.P Siddhartha Institute of Technology, Vijayawada, affiliated to Jawaharlal Nehru Technological University. He has given seminar on Big data analytics. He has attended

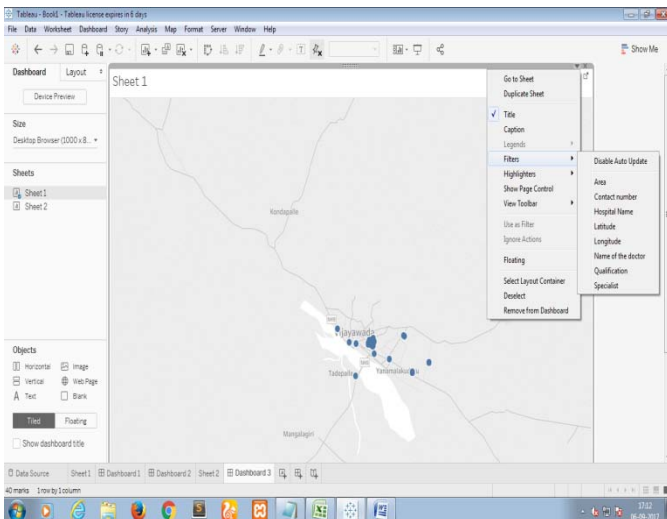
workshop/seminars on Python IOT, Cyber security. He is currently working on the mini project Smart appointment in hospitals. His current research interests are Tableau, IOT.



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View of the map, in which we display filters like area, contact number, hospital name, and latitude, and longitude, name of the doctor, qualification, specialist, and these filters can be used to display the data.



V. CONCLUSION

We are able to successfully created an interactive graphs and charts in the form of dashboards and worksheets which helped people to understand in an most effective way. We made it possible with gestures as simple as drag and drop. It helped the people to know in detail about the diseases and its symptoms[6], first-aid and safety measures are also provided so that they can be medicated easily within the reach of the people .If there is any serious issue or drastic symptoms of the diseases the eminent expertise doctors for the particular diseases in the city with their details plotted in a map view so that the patient can concern a doctor.

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