

ANALYSIS OF SUMMER SEASON AND DETECTION OF DISEASES DUE TO SUMMER SEASON

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Abstract: Different weather has various impact on such disease. This paper gives us information of the causes and changes in the seasons, and its present time issues also gives great impact on human diseases and to find exact conclusion on such issues number of peoples gave their valuable suggestions and real-time information about such disease through survey method. From such survey it has been concluded that many peoples think that some type of application or

The most important factor of this paper is to supply scientific basics for preventing and the prevalence's of many common disease which occur in Summer Days (May-August) in Pune City, Maharashtra. Here various common disease, its types, precautions taken to cure that diseases and weather effects was collected from survey method, and it was represented by graphical form and statistics were made. This graphs showed the average amount payed for that certain disease was more than 41.83%. various impact able issues had various effect on the causes of diseases in four months, such as High temperature, atmospheric pressure and evaporation capacity. The results of various graphs indicated that consistent high temperature and atmospheric conditions were most major able causes for diseases in Pune District, The places of disease and probable sunshine showed distractive effect in Maharashtra. Result for such device should be made so that tit can detect the symptoms of that disease before it is caused.

I. INTRODUCTION:

II. All organization equal measure tuned in to the actual fact that some diseases are totally depended on seasons than others. For instance, cold, respiratory illness and cough are common diseases of winters, infectious disease and protozoal infection of monsoon, and looseness of the bowels are of summers. From these, the disease caused in summer days has great issues faced from small disease additionally that vary from easy one's sort of various diseases to severe ones. The months of May and June measure typically the most popular in Asian nation. And in various areas temperature gets above 51°C, and many areas faces strong summer. Many peoples lost their lives by facing such moderate summer. if this conditions are not changed it would be very difficult for peoples to survive. and as we know precaution is much better than cure. You must take necessary preventions against summer even if you are fit and fine. in this you must know some basic diseases caused in summer and below are some diseases in detail.

- **FOOD POISONING**

The major reason behind this disease is having outside junk food and polluted water. It spreads by various ways such as eating junk food, drinking polluted water, toxins etc.

- **HEAT STROKE**

Heat strokes mainly effect to those peoples who cannot survive in strong and moderate summer.

- **SUN BURNS**

In summer days peoples stay for longer time in sun, their skins gets red and they feel rashes, After that, they feel cold, loss of energy, weakness, they feels like vomiting. and their body doesn't suits that temperature.

- **SKIN RASHES**

In summer days skin rashes is most common disease in children's and adult peoples. It happens when a person sweats in sunny for longer duration. The person gets swets when the clothes gets wet or if we rough at a particular place for many times.

LITERATURE SURVEY

According to Susan E. Coffin, in his paper he said that mesial caused for peoples are between 2-15 month children's adults mostly are protected from such disease. that survey pretended that mesial caused in children's age of below 12 month are highest than other peoples or adults. most of the peoples are aware of the symptoms and causes of mesial disease.

By the Eileen J. Carter, the organization which work on curing normal disease in summer days are(HAIs) , most peoples are aware of several diseases .in many areas the disease spread through water pollution ,junk food etc. The emergency department (ED) is an important factor of the health care association and essential for world flow system.

According Xiaoxu Wu ,the change in climate for a long- term and shift in it with respect to weather and its conditions and weather at extreme and events. It may lead to changes in health threat to human beings, multiplying existing health problems. This review examines the scientific evidences on the impact of climate change on human infectious diseases. It identifies research progress and gaps on how human society may respond to, adapt to, and prepare for the related changes.

Dataset Description:

The dataset for this analysis paper has been collected by survey purpose.in which over 450 peoples shared their personal views on disease caused in month of May-august. The survey was taken by sharing a link of goggle forms through social media .I choose this technique because questionnaires offer to admit their responses and to use this resources for making an application to predict the disease.

Timestamp	age	profession	vaccination	health	heat_prob	serious_he	family_you	amount	summer_d	more_hygi	aewarness	machine_c	What are your suggestion or opinion on curing such diseases.which type of application can help to prevent from
1/28/2019 16 - 30	student	yes	Mostly	Yes	No	Heat strok	0-500	low water	Yes	No	Yes		
1/30/2019 16 - 30	student	no	Yes	No	No	skin diseases	0-500	Temperati	No	Yes	Yes		
1/30/2019 16 - 30	student	Sometime	Yes	No	No	skin diseases	0-500	low water	Yes	Some of th	Yes		
1/30/2019 16 - 30	student	yes	No	Yes	Yes	skin diseases	0-500	Temperati	Yes	Yes	Yes	Drinking more water	
1/30/2019 16 - 30	student	Sometime	Sometime	Yes	Yes	Many time skin diseases	0-500	Temperati	Yes	Some of th	No		
1/30/2019 16 - 30	employed	yes	Yes	No	No	skin diseases	0-500	Temperati	Yes	Some of th	No		
1/30/2019 31 - 45	own busini	yes	Yes	No	Yes	food pois	501-1000	change in :	No	Yes	Yes		
1/30/2019 46 - 60	employed	no	Sometime	No	Many time	Heat strok	1000 -abo	change in :	No	Some of th	Yes		
1/30/2019 16 - 30	student	Sometime	Sometime	Yes	No	skin diseases	0-500	Temperati	Yes	Yes	Yes		
1/30/2019 16 - 30	student	Sometime	No	No	No	sore eyes	0-500	Temperati	Yes	Yes	Yes		
1/30/2019 16 - 30	student	yes	No	No	No	sore eyes	0-500	low water	No	No	No		
1/30/2019 0 - 15	student	yes	Sometime	No	Many time	skin diseases	1000 -abo	low water	Yes	Some of th	Yes		
1/30/2019 16 - 30	own busini	yes	Sometime	Yes	No	sore eyes	501-1000	change in :	No	No	Yes		
1/30/2019 31 - 45	employed	Sometime	Mostly	No	Many time	food pois	0-500	Temperati	Yes	Some of th	Yes		
1/30/2019 46 - 60	own busini	no	Sometime	No	No	Diarrhoea	501-1000	low water	Yes	No	No		
1/30/2019 46 - 60	own busini	no	No	Yes	No	food pois	0-500	Temperati	Yes	Yes	Yes		
1/30/2019 0 - 15	student	no	Sometime	No	No	food pois	501-1000	low water	Yes	Yes	No		
1/30/2019 46 - 60	employed	Sometime	No	Yes	Yes	Heat strok	501-1000	change in :	No	Some of th	No		
1/30/2019 46 - 60	employed	no	No	No	No	food pois	501-1000	low water	Yes	No	No		
1/30/2019 61 - Above	own busini	no	No	Yes	Yes	food pois	1000 -abo	low water	No	No	Yes		
1/30/2019 0 - 15	student	no	Sometime	No	No	sore eyes	1000 -abo	change in :	Yes	Some of th	No		
1/30/2019 31 - 45	student	yes	Yes	Yes	Yes	Heat strok	501-1000	change in :	Yes	No	No		
1/30/2019 46 - 60	own busini	no	Sometime	Yes	Yes	Heat strok	501-1000	change in :	No	No	Yes		
1/30/2019 31 - 45	own busini	no	Sometime	No	Yes	food pois	1000 -abo	change in :	Yes	No	Yes		
1/30/2019 16 - 30	employed	yes	Yes	Yes	Yes	Heat strok	501-1000	low water	Yes	No	No		
1/30/2019 46 - 60	employed	no	Sometime	No	Many time	skin diseases	1000 -abo	low water	No	Yes	Yes		
1/30/2019 61 - Above	own busini	Sometime	Sometime	No	Many time	Diarrhoea	0-500	Temperati	No	Some of th	No		
1/30/2019 31 - 45	student	no	Sometime	No	No	Heat strok	1000 -abo	change in :	Yes	No	Yes		
1/30/2019 31 - 45	employed	yes	Mostly	Yes	Yes	skin diseases	501-1000	Temperati	Yes	Yes	Yes		
1/30/2019 46 - 60	own busini	Sometime	No	No	No	sore eyes	501-1000	low water	Yes	No	No		
1/30/2019 31 - 45	own busini	no	No	Yes	No	sore eyes	1000 -abo	low water	Yes	Yes	Yes		

Data Visualization:

The question asked in a survey paper are represented in chart form which gives detailed information about people opinion on it.

1. This graph shows the information about the average amount of disease caused in season of summer. which is characterized in three terms like 0-500 ,501-1000and 1000 above most of the peoples spend in between 501-1000.

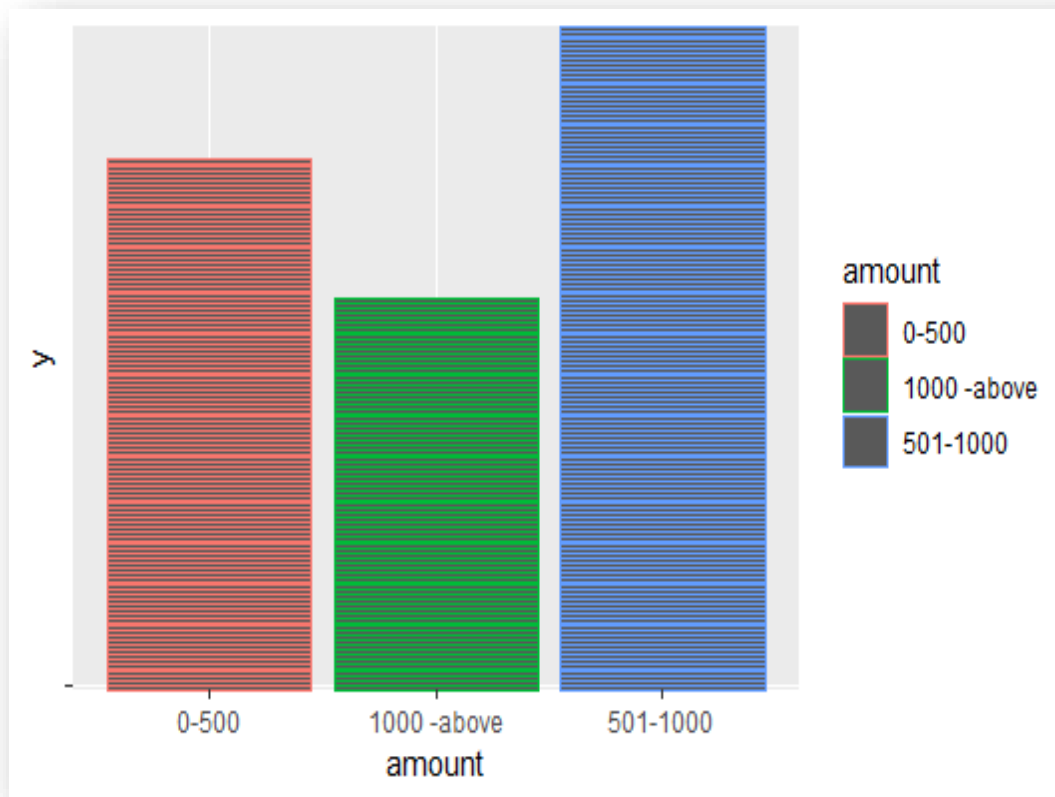


Fig (1)

2. in this graph peoples having heat problems are 43.55% and people those who doesn't suffered are 56.45%.this shows that most of the peoples take care of there health during summer.

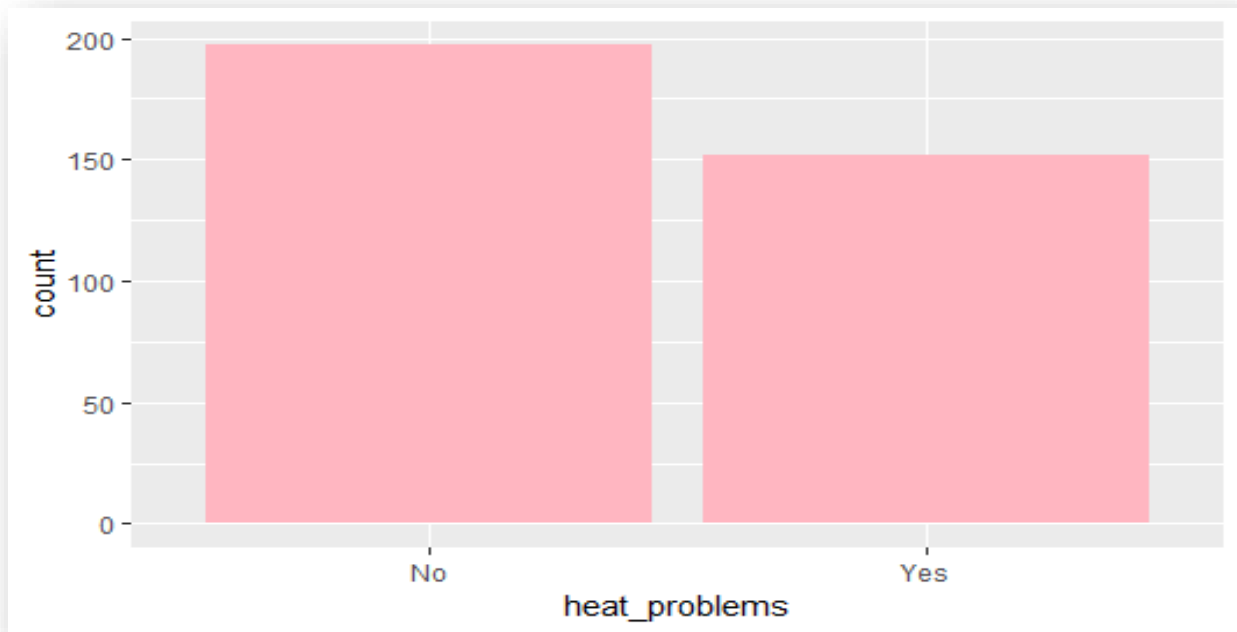


Fig (2)

3. In this graph people are agreed about the opinion that they should stay hygienic to avoid normal health diseases.

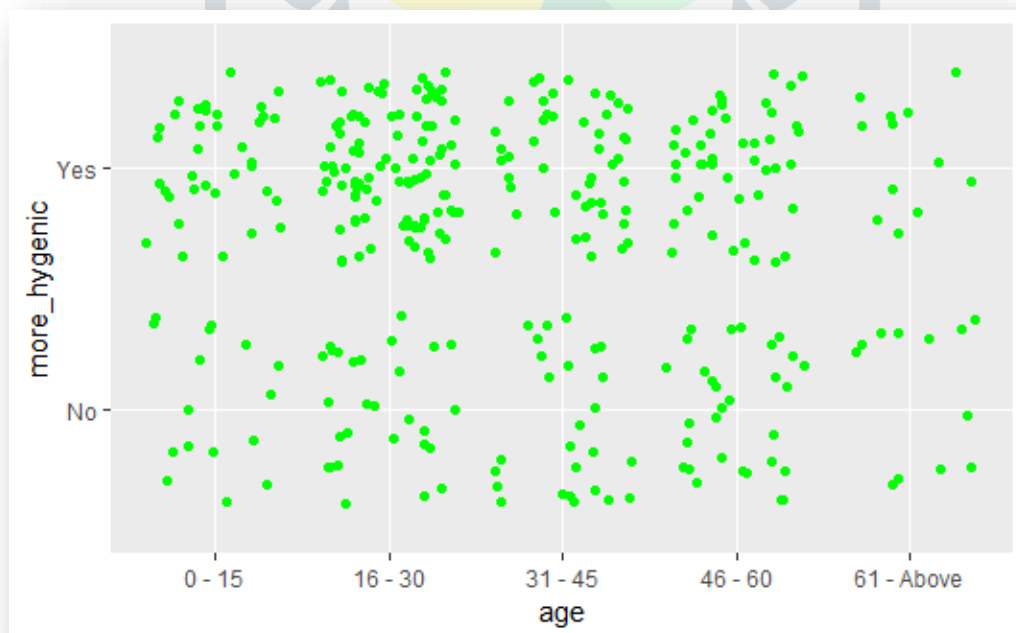


Fig (3)

4. In this graph it shows that most of peoples are aware of symptoms which leads to several diseases in duration period of summer season.

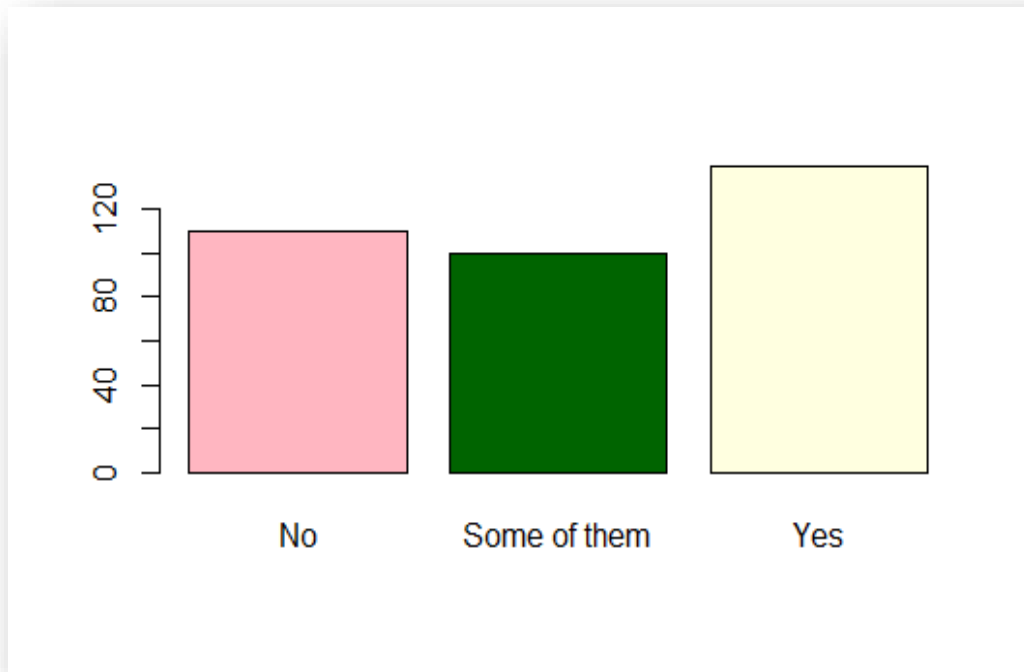


Fig (4)

5. This graph shows that most of the peoples agree about the thought that there should be a application or machine to detect such disease before it takes place.

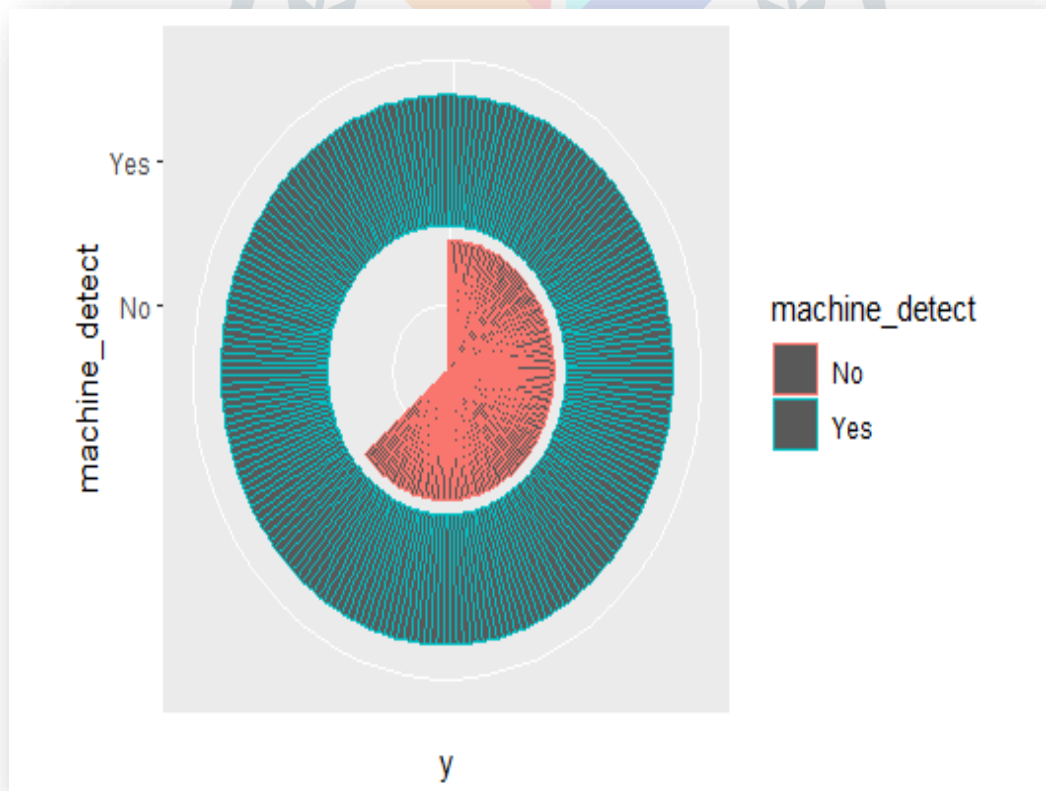


Fig (5)

OBSERVATION:

The primary reason of the researcher behind the irruption of the diseases in high temperature (summer) is that the presence of disease's favorable climatic conditions for microorganism, virus and different parasites to breed. several peoples aren't favorable to the climatic conditions after they migrate from one place to a different. from the survey around 114peoples suffered from traditional illness in period amount of (may-aug)and forty one.8% suffered from heat issues. 32.7% suffered from skin rashes. Only 25.50% peoples keep healthful in summer days. Comparative analysis of different infections from the same locality was useful. Not only because infections can interact directly, but because many diseases natural histories will head many temporal dynamics in result to the same seasonal forcing. Aware analysis of surveillance data can therefore allow fragile ideas about mathematical complexity to be addressed and the causes of seasonal attention more robustly identified.

PROPOSE SYSTEM:

In this analysis paper Compliance was assessed in 5 domains: Heat strokes, skin disorder, Diarrhea, Sore eyes, gastrointestinal disorder and calculated compliance by dividing the quantity of correct problems and suggestions obtained by peoples .and ways for resolution that problems.

Summer Its Diseases and Preventions

The basic reason behind the origin of diseases of summer is the presence of favorable weather conditions for bacteria, virus . Here is the list of some of the best summer health tips to immune one from diseases.

- Try to avoid activities outside the house during peak sun hours.
- Avoid exposure the crowded area in direct sunlight.
- Increase water or liquid level in person.
- Water intake to prevent dehydration.
- Use of sunscreen with higher SPF to prevent skin damage.
- Avoid all kind of roadside food and contaminated water.
- Increase the consumption of all types' fruits and vegetable which contain high amount of water.
- Wear hats to avoid the direct contact to the sun.
- Prefer light-colored, loose clothing as dark colors absorb heat.
- Keep your premises and personal house area healthy and clean.

These are little prevention that a machine or a device can predict based on persons symptoms.

CONCLUSION:

The researcher in this research paper has focused on the disease which appears mostly in the summer season. the main focuses of the researcher are to collect the knowledge about the peoples (people participated in the survey) in the subject to summer diseases. The paper is mainly about the summer disease and to make aware about a need of device to pre-dictation of the disease. The research would like to conclude the paper by announcing the need for a device that would pre-dictates the summer disease and protect the society for them.

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