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Pie – Chart Representation of Coconut Embryo and Mango Flower Used As a Medicinal Value Using Image Processing Techniques

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ABSTRACT

An image processing technique is a valuable tool used for analysis in a particular area and its application. This article deals with coconut embryo and mango flower by using the usage of the strategies of image processing. Flowers play an essential role directly or circuitously in our day to day lifestyle because there are several drug treatments in the device which are beneficial for treating distinctive forms of ailment. There are certain important vegetable flowers that are used both individually and in compound formulations for medicinal purposes, thereby contributing to the popularity of diverse medicinal use of vegetables.

Keywords: Image Processing, coconut embryo, mango flower, medicinal.

1. INTRODUCTION

Today, Image Processing is one of the fastest growing technologies, with applications in various fields of business. It is also a core research topic in fields such as engineering and computer science.

A photograph based totally sign on image processing technique includes the processing of an image, such as a video body or a photograph, and handing over a picture or traits of that photograph as the output. When an Image Processing device is used, photographs are normally handled as two dimensional alerts and the well known sign processing strategies are applied.

1.1 Importance of Flowers in India

India is blessed with a wide range of climates and geographical conditions, making it the perfect place to grow fruits, vegetables, flowers, nuts, spices and plantations crops. In general, parents should include colorful and crunchy vegetables and fruits in their children's diet every day, which will inspire them to do the same. A simple meal with at least one or two kinds of vegetables is preferred in a vegetarian diet.

Children generally have a hard time figuring out what to eat. In general, mixing up too many types of food at one meal causes digestive problems as the stomach produces different digestive secretions for different kinds of foods. As we all know, vegetables are important protective foods and very valuable for the prevention of disease and maintenance of health. They are highly prized due to the amount of vitamins and minerals they provide. They have good amount of vitamin A, B, and C, foliate, iron, and magnesium.

Flowers are not just capable of emanating fragrances, but they also have medicinal properties. They are considered to be vital in Ayurveda, which strives to treat chronic and lifestyle diseases using personalized Ayurveda

treatments. Ayurveda, strives to treat chronic diseases using personalized Ayurvedic treatments. In addition to its colours, flowers are widely used in Avurveda tea, which decreases blood pressure as well as diarrhea, piles, bleeding, and cough. can also be used to provide contraception. Flowers of this colour contain tannin, vitamin A, B, and C, as well as organic acids. The juice of the flowers is used to reduce body heat and headaches, dried flowers are given to pregnant women as diuretics and petals are used to make alcohol. There are some flowers that can relieve lung related disorders, such as cough, asthma, and bronchitis, as well as digestive problems such as gastric difficulties. Ayurvedic medicines use yellowish, orange flowers to treat ailments such as dehydration, ulcers, and wounds.

The use of pink flowers has been proven to reduce fevers, thirst, burning sensations, boils, diarrhea and bronchitis. White flowers are proves useful for alleviating digestive problems, menstrual pain, and irritation. White flowers have been used as a remedy for anxiety and insomnia and other the nervous system aliments for thousands of years. It also proves helpful for alleviating digestive problems, menstrual pain, and inflammation. White flowers will help you retain your physical and mental health.

2. RELATED WORK

The review article [1] emphasizes that on the detection of plant disease is a very important factor to prevent serious outbreak. Automatic detection of plant disease is an essential research topic. Most plant diseases are caused by fungi, bacteria, and viruses. Fungi are identified primarily from their morphology, with emphasis placed on their reproductive structures. Then green pixels are masked and removed using specific threshold value, then the image is segmented and the useful segments are extracted, finally the texture statistics is computed.

The assessment article [2] discussed on several flower capsules in unani medicine which are useful for treating special styles of ailment situations/ailments, a overview has been made focusing at the healing makes use of, brief description, principal chemical constituents and dosages of some essential flowers utilized in unani drugs as tablets and in compound formulations contributing to the popularization of numerous important medicinal uses of these flowers.

a reviewed article [3] on research has In been carried out on the integration of flower a holistic lifestyles training practice. essences therapy and instinct into The goal for the present day qualitative case study turned into to have a look at the customers' reports, ideals, and perceptions regarding the and intuition in mixing of flower essences holistic lifestyles training context clients who elected to participate within the look at stored a weekly mirrored image journal concerning their insights and any key religious reviews.

3. PROBLEM SPECIFICATION

The main objective of the present study is to make a detailed analysis of coconut embryo and Mango flower by using the technique of image processing.

3.1 Data Set

Different samples are taken and the experiments are conducted.

4. METHODOLOGY

In order to make a detailed analysis of the coconut embryo and Mango flower the codes are written in Matlab 7.50 Version.

4.1 Algorithm

Step 1: Read the Image

Step 2: Image Cropping (Which crops away the unwanted noise around the image)

Step3: Summary of Pixel Count

Step4: Find the pixel of Black, White, Yellow, Green, Cyan, Blue, Magenta, Red

Step4: Plot the pie -chart of Pixel Count

Step 5: Plot the percentage with pixels

5. EXPERIMENTS AND RESULT

The experiments to analyze the medicinal properties of coconut embryo and Mango flower are conducted through Mat lab. The outcome reports are presented in detail Tabular 1 and Tabular 2, Figure 2, Figure 3, Figure 4, Figure 5, and Figure 6.

COCONUT EMBRYO



Figure 1 Sample Coconut Embryo

Summary of Pixel Count: 18760

Color Names	Black Pixel	White Pixel	Red Pixel	Yellow Pixel	Green Pixel	Cyan Pixel	Blue Pixel	Magent a Pixel
Pixel Count	1007.41	3249.23	1367.60	7425.21	1219.40	2264.33	1883.60	343.31
% in Pixels	5.37	17.32	7.29	39.58	6.50	12.07	10.04	1.83

Tabular 1 Summary of Pixel Count

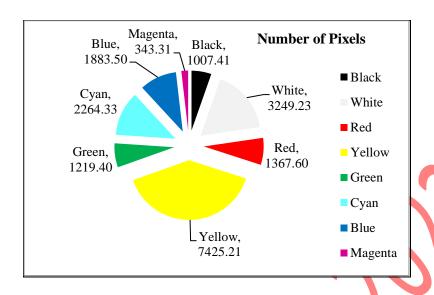


Figure 2 Pie – Chart with Pixel Count

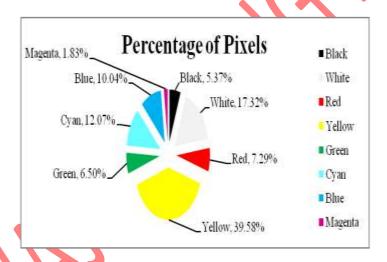


Figure 3 Pie – Chart with % of Pixels

In the above pie chart its miles clean that the Coconut Embryo contains 39.58% of yellow pigments for this reason it's far observed to comprise vitamin C. consequently it useful for these kinds of illnesses found in human which might be due to deficiency of diet C. It additionally carries 17.32 % of white pigments which help immune system to fight off infection, include antoxanthins to assist lower cholesterol and blood pressure.

- ❖ Eating coconut embryo can also help you lose weight. It is low in calories which help in weight loss. It can also help you lose weight fast without adding fat as it stimulates metabolism.
- ❖ Has the ability to expel free radicals from our body that trigger cancer cells
- ❖ We usually eat coconut. We also eat tender. Some people may be confused as to what a coconut embryo is. coconut embryo is the embryonic development that occurs in mature coconut
- ❖ Coconut contains more nutrients than coconut and tender coconut water. Coconut embryo is high in nutrients and can double the immune system.

- ❖ Coconut embryo has the ability to reduce kidney damage. It also cures kidney infections. Coconut embryo can get rid of toxins and get a healthy kidney.
- ❖ People with high workload will be very tired mentally and physically. When that is the case, eating coconut will give the body more energy.
- ❖ Fats that build up in the arteries of the heart can cause heart attacks and some other heart-related diseases. Coconut embryo is also very effective in correcting this fat accumulation problem.

MANGO FLOWER



Figure 4 Sample Mango Flower



Summary of Pixel Count: 13851

Color	Black	White	Red	Yellow	Green	Cyan	Blue	Magenta
Names	Pixel	Pixel	Pixel	Pixel	Pixel	Pixel	Pixel	Pixel
Pixel Count	9.00	6750.98	454.31	6629.09	0.86	0.00	0.00	2.00
% in Pixels	0.06	48.74	3.28	47.86	0.01	0.00	0.00	0.01

Tabular 2 Summary of Pixel Count

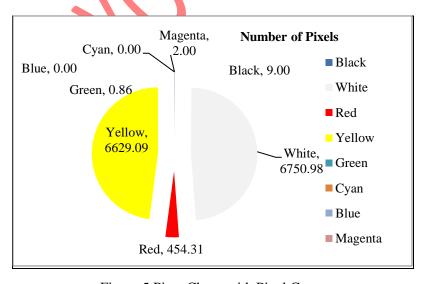


Figure 5 Pie – Chart with Pixel Count

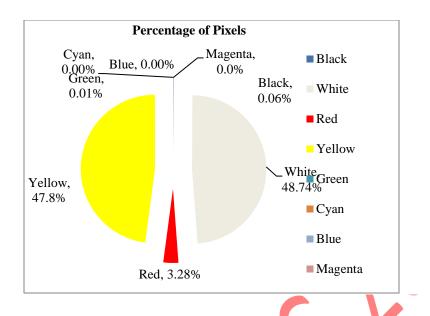


Figure 6 Pie – Chart with % of Pixels

In the above pie chart 48.74 of white pigments which aid immune to fight off contamination, incorporate antoxanthins to assist decrease cholesterol and blood strain, in additionally incorporates 3.28 of red pigments which can be beneficial lycuiene and anthocyanins which can be health promoting photochemical useful for coronary heart fitness, excessive memory characteristic lower danger of a few cancers facilitates urinary tract health. Also contains 47.8% of yellow pigments for this reason it's far observed to comprise vitamin C. consequently it useful for these kinds of illnesses found in human which might be due to deficiency of diet C.

- ➤ Bleeding on the nostril can be triggered through various reasons. However, after inhaling the mango flower, bleeding can end immediately
- Chronic dysentery if now dealt with true will lead to problems and is very dangerous to the body. To stop it, use the mango flower as a medicinal drug By consuming water stew of mango flowers
- Some illnesses that can be cured with this mango flower encompass a headache in advantages rubdown anxiety headache, vomiting, and allergies
- ➤ Urine sickness can be handled with this mango flower. The trick is to devour them in the shape of beverages. By ingesting these herbs often times then urinary illness can be cured.

6. CONCLUSION

Greenery is grown well in India, and it is the nation that produces the most vegetables and flowers, which are exported internationally. By displaying the results in a pie chart, the variations of different flowers can be clearly seen by using image processing techniques. This can show the hidden scientific potential & characteristics of vegetables where otherwise they may hidden to the naked eye.

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