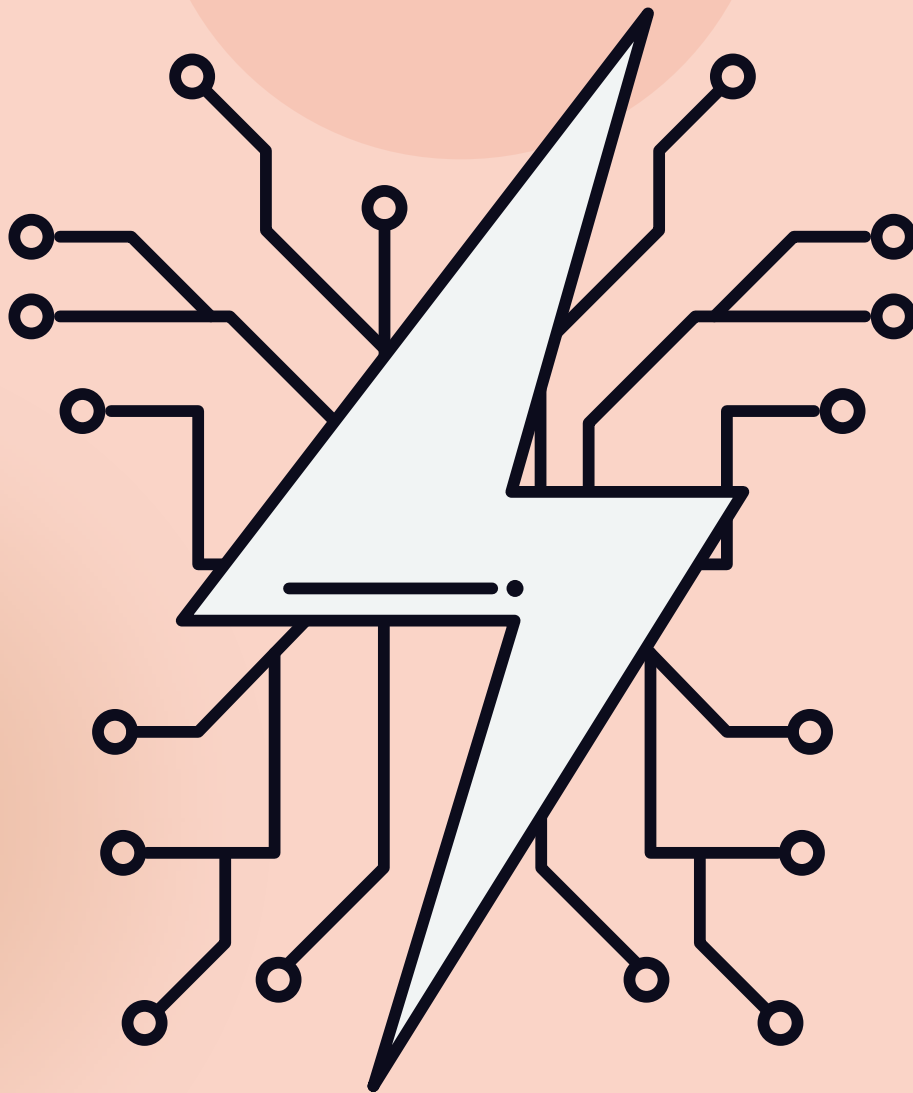


Edition : 2023-24

Part - 1

ECE

*Techno Chronicle*



Department Of Electronics & Communication Engineering



**DR.K.V SUBBA REDDY  
INSTITUTE OF TECHNOLOGY  
(AUTONOMOUS)  
NH-44, Kurnool, Andhra Pradesh**

# **TECHNO CHRONICAL**

**2023-2024**

## **INSTITUTE VISION**

To Be A Global Leader In Imparting Quality Technical Education To Produce Competent, Technically Innovative Engineers Imbued With Research Aptitude, Entrepreneurship And Social Responsibility.

## **INSTITUTE MISSION**

1. To Nurture The Students With Fundamental Engineering Knowledge Enriched With Technical Skills.
2. To Create Conducive Environment To Nurture Innovation And Interdisciplinary Research.
3. To Develop Professionals Through Innovative Pedagogy Focusing On Individual Growth, Discipline, Integrity, Ethics And Social Responsibility.
4. To Foster Industry-Institution Partnerships Leading To Skill Development And Entrepreneurship.

## **ECE DEPARTMENT VISION:**

To Strive Towards Excellence In Electronics And Communication Engineering Through Teaching, Experimental Learning And Research To Meet Industrial And Societal Needs

## **ECE DEPARTMENT MISSION:**

**M1:** To Provide Appropriate Facilities And Environment For Effective Teaching- Learning Process.

**M2:** To Create Interdisciplinary Research Ambience To Nurture Innovative And Research Skills.

**M3::** To Incorporate Interpersonal Skills, Professional Integrity, Ethics And Societal Responsibility.

**M4:** To Imbibe Entrepreneurship Skills And Leadership Qualities.

## **About ECE Department :**

The Department Of Electronics And Communication Engineering Has Been Playing A Vital Role In Producing Quality Engineers Ever Since It Was Established In The Year 2007. The Department Runs One Under Graduate Program And Two Post Graduate Programs To Cater To The Ever – Changing Needs Of Technical Excellence In All Areas Of Electronics And Communication Engineering Such As VLSI & Embedded Systems, Telecommunications, Signal Processing Etc. The Intake For Under Graduate Program (B. Tech) Is 120. The Department Also Offers Post Graduation Programs With Specialization In Digital Electronics And Communication Systems (DECS) With An Intake Of 18 And VLSI & Embedded Systems Design With An Intake Of 24.

The Department Headed By The Professors, Associate Professors, Assistant Professors Who Are Experts In Their Respective Disciplines. The Department Has Got Every Facility To Groom The Students As Per The Demands Of The Industries And Mncs. The Department Has Highly Modernized Laboratories With Sophisticated Equipment, Which Improves The Practical Working Competency In The Students And The Confidence.

The Department Aims At Educating And Training Students With Sound Knowledge And Awareness In The Latest Trends In Electronics And Communication Engineering. The Regular Interaction Session With Eminent Professors From Reputed Universities Create Awareness In The Student About The Latest Developments In The Field Of Science And Technology. This Helps Students To Fix Up Their Right Goals For Their Bright Future.

## **PROGRAM EDUCATIONAL OBJECTIVES (PEO)**

**PEO1:** Graduates Of The Program Will Have Strong Fundamental Knowledge In Electronics And Communication Engineering, Analytical, Critical Reasoning And Problem-Solving Skills To Develop Innovative Solutions (Continuing Education).

**PEO2:** Graduates Of The Program Will Be Professionally Progress In Electronics, Communication, Signal Processing, VLSI, Embedded Systems And Related Areas With An Inclination Towards R&D And Lifelong Learning (Excellence In Career).

**PEO3:** Graduates Of The Program Will Have Entrepreneurship Skills, Leadership Qualities To Work With Diversified Teams In Multidisciplinary Environment (Leadership And Multi-Disciplinary).

**PEO4:** Graduates Of The Program Will Be Professionally Deft And Intellectually Adept To Develop Solutions To Complex Engineering Problems With Professional Ethics And Societal Responsibility (Contribution To Society).

## **PROGRAM SPECIFIC OUT COMES (PSOS)**

**PSO1:** Design Problems Related To Electronics, Communications, Signal Processing, VLSI And Embedded Systems.

**PSO2:** Analyze And Solve The Complex Communication Engineering Problems In Architecture Design And Computer Networking.

**PSO3:** An Ability To Use Modern Software Tools To Analyze, Synthesize And Evaluate VLSI And Communication Engineering Systems For Multidisciplinary Tasks.

## **ACKNOWLEDGEMENT**

We Extend Our Sincere Thanks To

Honorable Chairman  
**Dr.K.V.SUBBA REDDY**

Secretary & Correspondent  
**SMT.S.VIJAYALAKSHMAMMA**

Principal  
**Dr.J.KANNA KUMAR**

HOD  
**Dr.M.V. SRUTHI**

All Our Staff Members For Their Humble  
Co- Operation And Involvement In Their Creation Of Bytes,  
For The Year 2023-2024



## **MESSAGE FROM THE CHAIRMAN**

It's Been A Real Pleasure To Know That The Department Of ECE Is Hosting Their First Ever National Level Technical Symposium "TECHNO CHRONICAL", AND I' Am Glad To Hear That It Is Being Organized Wholly For The Students With Guidance Of The Staff Members. Such Combined Effort Is Always Encouraged And Bring Out Good Results.

The Department Of "Electronics And Communication Engineering" Has Always Conducted Activities Which Helps In Development Of Students Into Leaders, I Hope "TECHNO CHRONICAL"2024 Is A Huge Success And Adds A New Star In The History Of The Department.

With Regards  
Dr. K.V. Subba Reddy ,Founder–Chairman,  
Dr.K.V.Subba Reddy Institute Of Technology,  
Kurnool-518218,



### **MESSAGE FROM THE CORRESPONDENT**

I Feel Very Proud That The Department Of ECE Is Organizing Nation Level Technical Symposium“ TECHNO CHRONICAL”On2024The 21st Century Is Advancing Rapidly By Multipronged Scientific Inventions And Discoveries In That The Electronics And Communication Engineering Is Playing They It All Role In All Scientific Developments. The Has Com That Without Electronics And Communication Engineering Nothing Is Going To Move I This Universe. In This Perspective The Contribution. The Development Of Society By This Departments Vital In All Sphere Of Life. I Heartily Wish The Staff And Students Of The Department In Their Endeavor To Bring In A House Magazine Which Will Otherwise Contribute To The Highest Learning Of This Magnificent Engineering.

With Regards

Secretary &Correspondent

**SMT.S.VIJAYALAKSHMAMMA,**

Dr. K.V.Subbareddy Institute Of Technology,

Kurnool- 518218





## **MESSAGE FROM THE PRINCIPAL**

Dear Friends, Greetings From DR.KVSRIT, Kurnool. Engineering Is A Human Activity Aimed At Creating New Artifacts, Algorithms, Processes And Systems That Serve Humans. An Engineer Seeks To Create What Never Did Exist. It Is A Privilege In Any One's Career To Embark On Engineering Education. At Dr.K.V, Subba Reddy Institute Of Technology, Our Vision Is "To Be A Global Leader In Imparting Quality Technical Education To Produce Competent, Technically Innovative Engineers Imbued With Research Aptitude, Entrepreneurship And Social Responsibility. On The Academic Front, We Have Provided The Best Quality Class Rooms, Laboratories, And Library Facilities.

With Regards  
Dr.J.Kannakumar,  
Principal  
Dr.K.V.Subbareddy Institute of Technology,  
Kurnool- 518218,



### **MESSAGE FROM THE HOD**

The Department Of Electronics And Communication Engineering Believe In Imparting Excellence In Education By Keeping Our Students In Pace With Industry Demands. The Department Is Equipped With Best Lab Facilities Having Latest Software And Hardware To Provide Industry-Oriented Knowledge To Our Students. The Department Consists Of Highly, Energetic, Dynamic, Well-Experienced, Qualified As Well As Young Faculty Members Who Also Work As Mentors To Turn Students To Professionals By Grooming Their Technical Skills As Well As Their Innovative Capabilities.

With Regards

Dr.M.V. Sruthi,

ECE-HOD

Dr.K.V.Subbareddy Institute Of Technology,

Kurnool- 518218,

## **ABOUT DRKVSRLT:**

Dr. K. V .Subba Reddy Institute Of Technology Is Promoted By Vaibhav Educational Society (VES) With The Motto Of “Work Is Worship“. Its Prime Objective Is To Offer Quality Education For The Betterment Of Society. It Persistently Seeks And Adopts Innovative Methods To Improve The Quality Of Higher Education On A Consistent Basis. The Campus Has A Cosmopolitan Atmosphere Of Attracting Students From All Corners Of Andhra Pradesh. Faculty Are Continuously Encouraged To Conduct Research, Pursue Higher Education And Nurture The Students. Our Memoranda Of Understanding With Various Industries Are Our Major Strength. Many Of Our Students, Who Pursue Their Jobs In Various Industries Bring High Quality To Their Work And Add Value And Esteem To Their Organizations. With Steady Steps, We Continue Our March Forward.

## **HISTORY OF DRKVSRLT**

Established In 2007, DRKVSRLT Is Affiliated To Jawaharlal Nehru Technological University (JNTU), Ananthapuramu, And Is Approved By The All India Council For Technical Education (AICTE), New Delhi. The College Is Headed By Its Founder And Chairman, Dr. K. V. Subba Reddy. In Recognition Of His Outstanding Service To India In Offering Quality Education, He Is Conferred With Jewel Of India Award By Indian Solidarity Council On 13<sup>th</sup> March 2006. He Is Also Conferred Life Time Achievement Gold Medal Award By International Institute Of Education And Management On 13<sup>th</sup> March 2016. Smt. Vijaya Lakshamma Is The Secretary And Correspondent. Dr.J.KANNA KUMAR Is The Principal.

## TECHNICAL MAGAZINE 2023-2024



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# 1.VISION-BASED OBSTACLE DETECTION AND COLLISION PREVENTION IN SELF-DRIVING CARS



**Dr.M.V.Sruthi**

**Associate Professor & HoD**

With increasing computational power and a vast amount of data to work with, deep learning has risen to prominence since the 2010s. Numerous applications are being researched and developed using deep learning. One of the applications is computer vision in self-driving cars. Convolution Neural Networks (CNNs) is being widely used because of their high performance compared to other alternative techniques in several perception and control tasks. The Convolution Neural Networks (CNNs) allow the automobile to learn from different types of roads, scenarios allowing the car to forecast its route on any particular road with minimum in accuracy .This paper proposes a working model of the autonomous car, which has a Raspberry Pi 4 Model B as the control unit and processing unit. This working model gets real-time images from the Raspberry Pi camera and these images are used by the CNN model, which predicts the direction the car must turn. The raspberry pi sends the control signals to the L298n motor driver. The trained CNN model achieved an accuracy of 93.07% withthetestdatasetand88.3%withthetrainingdataset.

**Introduction:** In the last 5 years, there were almost 2,363,031 traffic collisions with anaverageof472, 606 which are a major source of deaths ,injuries, property damages. Automobile safety technologies such as Anti Breaking systems, Antilock Brakes, Traction Control, and airbags have hit stalemate. The term self-driving car is getting its attention both in academia and industry. A self-driving automobile is a vehicle which perceives its

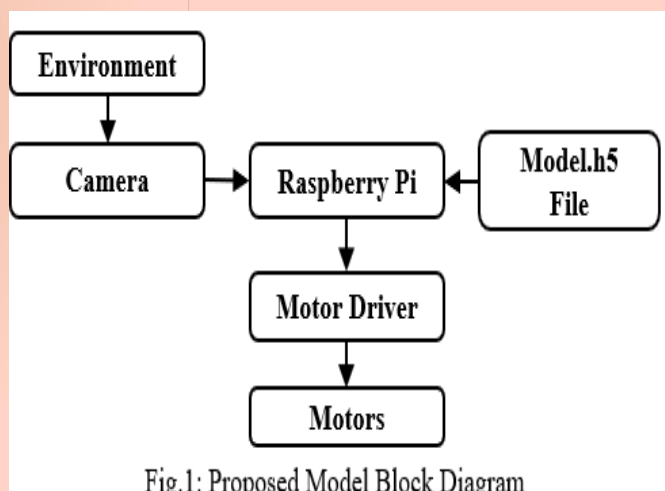


Fig.1: Proposed Model Block Diagram

environment and maneuver without the need for human involvement. This paper proposes a working model of self-driving car. This proposed self-driving car takes input from a single camera. In this working model, the Raspberry Pi 4 Model B gets real-time images of the car's environment from the Raspberry Pi Camera. Then Raspberry Pi processes the

captured real-time images and sends control signals to the L298n driver module. The L298n drives the car with the help of DC motors.

**ethodology:** In this, a three-step process to obtain a working model of an autonomous car is proposed. The three steps in the sequence are the main collection of data, training of collected data ,and deployment of the trained model. In the first step,acar in which Raspberry Pi is a control unit and processing unit is built.A track with obstacles is made. The car is controlled remotely by using VNC and direction is given from the keyboard. The car is made to run on track and data is collected. Here data means real-time images taken and the direction of the car which it turned at the time of capturing an image. The main aim of this second step is to obtain the model.h5fileandsaveit.Thismodel.h5fileisusedinthelast step to predict direction for the real-time input image. At first, images are augmented and pre processed. Augmentation is done in order to make the car,able to run in different situations.Inpre-processing,imagesareblurred,resized.ThenaConvolutionalneuralnetwork model is created. All the above steps mentioned i.e., augmentation, pre-processing ,training using the CNN model were executed using a single python program. After execution of the python program, model.h5 is obtained. Then, in the next step, the model.h5 model is loaded in raspberry pi and used in a python program that predicts the direction the car must turn .Raspberry Pi sends controlsignalstotheL298nmotordriver.

This robotic automobile may be a luxury now, but it will undoubtedly become a need in the future. This paper proposed a working model of an autonomous car that uses computervision.RaspberryPi4ModelBwasabletohandlethecomputationalcomplexityofConvolutional Neural Networks. Even though validation dataset accuracy was reasonable, it can be increased for the better performance of the self-driving car model.

## 2.SMART PARKING SYSTEM USING OPEN CV LIBRARY



**Dr.S.Govindarajulu**  
**Professor**

This method mainly concentrates on smart parking system based on image processing which is developed for open parking plots and many more. It is proposed as an acquisition to new evolving technology by using python programming and Open CV tools library. Using edge detention and coordinate constrained pixel portions, it is possible to detect un occupied parking's paces using photos of the parking lot.

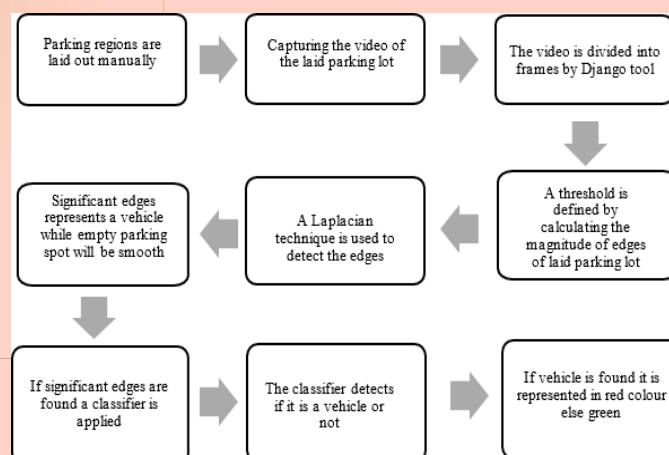
### INTRODUCTION:

Modern smart parking systems can be broadly divided into two based on the technology used for identifying the empty parking spaces in a parking lot; Sensor based methods and Image processing based methods. Sensor based methods have many disadvantages such as high installation cost per area .The steps involved in image processing based method are:-

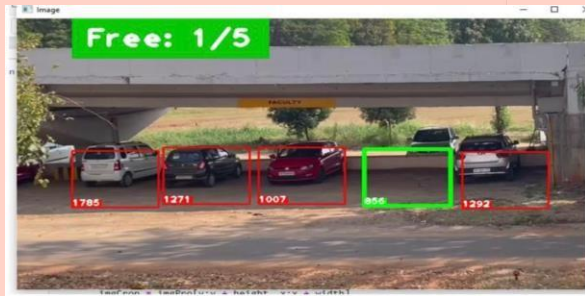
- (1) System initialization
- (2) Capturing the image
- (3) Processing the image
- (4) Segmentation
- (5) Image detection

Using edge detention and co-ordinate constrained pixel portions ,it is possible to detect unoccupied parking spaces using photos of the parking lot. So in this way we can prevent traffic congestion and provide parking spaces where ever there is a possibility and in an efficient way

### Methodology:









### 3. DETERMINISTIC BINARY BLOCK DIAGONAL MATRIX-BASED COMPRESSIVE SENSING ON BIOMEDICAL SIGNALS



**Dr.Syed Akheel**

**Professor**

Compressive sensing is a signal processing technique that enables sampling of the signal with a sampling rate much less than the conventional Shannon Nyquist theorem. By using Orthogonal Matching Pursuit as a reconstruction technique and DCT as the scarifying basis, a deterministic sensing matrix (DBBD) is proposed to execute the CS operation on EEG, ECG, and EOG data. A quality score (QS) issued to assess the overall performance of the signal acquisition and reconstruction process, and its value should be high

#### Introduction:

Compressive Sensing overcomes the limitations of conventional sampling theorem such as high processing time, computational complexity and vast storage requirements. Sampling rate in CS is determined by signal scarcity. Sensing matrices are used to get an exact or relative compressed transmitted signal at the receiver end. The proposed method involves generating a deterministic matrix to overcome the limitations of random sensing matrices and implementing it on bio-medical signals such as EEG, ECG and EOG.

#### Methodology:

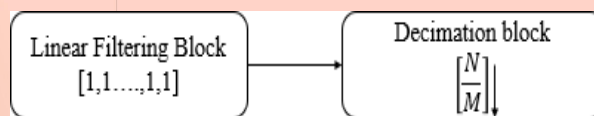
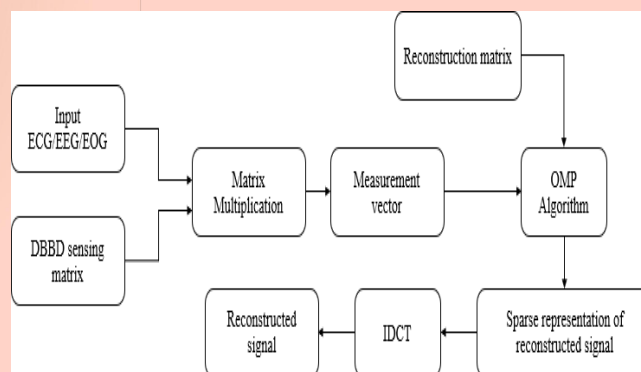


Fig. Deterministic Binary Block Diagonal matrix architecture



### Fig. Block diagram of the proposed method

The proposed matrix was capable of best results at high compression ratios compared to existing random and deterministic matrices. The proposed work obtained the performance metrics with a Quality Score of 223.9 for ECG, 5.3 for EEG and 306.7 for EOG. Future work should focus on generating a deterministic matrix that works efficiently for every compression ratios.

## 4. COMBINATION OF PCA AND SMOTERE SAMPLING TO DETECT PARKINS ON'S DISEASE USING MACHINE LEARNING ALGORITHMS



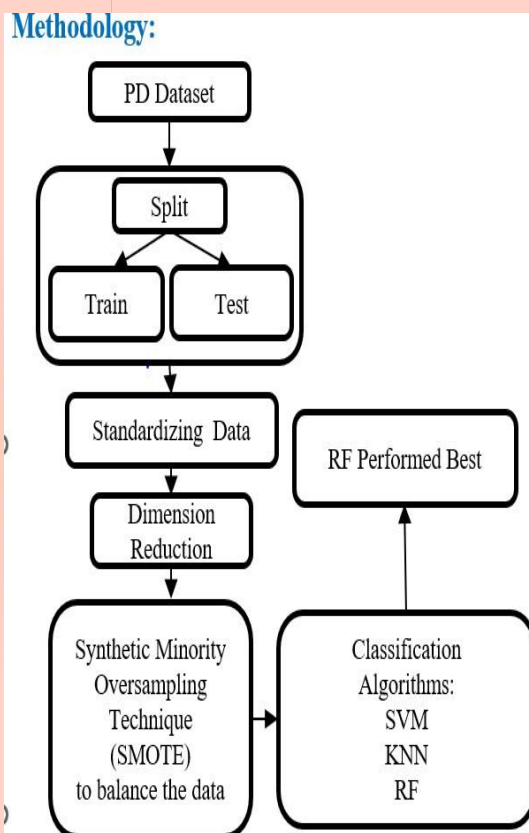
**Dr.S.K.Jilani**

**Professor**

The objective is to propose a diagnosis model to detect Parkinson's disease using extracted speech features From the voice recordings of both PD and HC .We have used Principal Component Analysis for Dimensionality reduction and SMOTE for balancing the data. Then the data is fed through Machine Learning algorithms such as SVM, KNN, Random Forest to classify PD and HC. Random Forest Out per formed the other classifiers with 97% accuracy.

### Introduction:

Parkinson's is a neurodegenerative disease effecting more than 1% of population over 50 years old. PD has 25% mis diagnosis. In recent times Machine Learning has created a significant influence in Parkinson's Community. Here we have used the voice features dataset to train the ML model as the PD patients show voice impairments in early stages.



We have developed a ML model to detect Parkinson's disease at the early stage with acoustic feature's Using SMOTE and PCA. For this we have used three supervised learning algorithms namely SVM,KNN and RF.The performance evaluation shows that the Random Forest classification algorithm has outperformed with highest accuracy of 97%. The aim of this model is to determine the true positives from the voice recordings of healthy and PD people. The proposed model has improved the F1 score value from 0.96 to 0.989.

## 5.SMART UMBRELLA

KONETI MANASA RANI---III ECE  
PALLE DEEPA-----III ECE

### **Introduction:**

Shelter Is An Essential Human Need. When We Go Out Whether It Is A Hot Summer Day Or A Rainy Day, Humans Search For A Shelter. So A Shelter With Basic Requirements Would Always Be Helpful. Shelter doesn't only protect Us But Also Fulfill Our Requirements. An Umbrella Is Generally Used To Protect From rain. Now It Is Modified To A Modernized, Smart Umbrella That Does Many Functions. The Modernization includes Mist, Charging Ports, and Automatic Night Lights. The Power Source For This Smart umbrella Is The renewable Energy Source, Sunlight. The Energy from Sunlight Is trapped Using Solar Panel and Stored In power bank for further uses.

The Climatic Conditions Nowadays Are Terrible And There's An Intense degree Of Heat Most Of The Time. So The Cooling Is Required In A Shelter. In Order To Get Cooling, Mist Sprayers Are Used, That Automatically senses the Person and Sprays the Mist. There's No One Nowadays Without A Mobile Phone. And It Is not possible To Carry A Mobile Phone Everywhere. So A Mobile Phone Charger Is Also Need To Be Provided. Irrespective Of Day And Night It Must Work. And During Nights The Most Essential Part Is Lights. And automatically Lights Get On As Soon As The Sun Sets Down. A Smart Shelter Is Required In Public Places, Bus Stops, And Watchman At Organizations. Every Person Who Comes out Always Search for a Shelter while waiting. So with the developing country the smart systems are to be developed. This can also be a small Block of making a smart India.

### **Block Diagram:**

Smart Umbrella Is An Integrated System Which Consists Of Four Modules. This Smart Umbrella Mainly consists Of Four Functionalities. Firstly Renewable Energy Source Is Converted Into Electrical Energy With the Help Of The Solar Panel, Which Is Placed On The Umbrella And This Energy Is Used In Different Ways As per Our Requirements. And Then This Energy Source Is Used To Make The Portable Charger Which Is Our next Module. And Then This Energy Source Is Also Used For Automatic Lights. The Lights Will Glow whenever It Is Dark. And Finally This Energy Is Used To Generate The Mist Sprinkles Whenever It Detects the Person. In This way, The Energy Generated Through The Solar Panel Is Used For Various Purposes. We can Use This energy Either Directly Or We Can Use Energy Storage Elements Like Power Bank To Store That energy and to use that energy when ever required

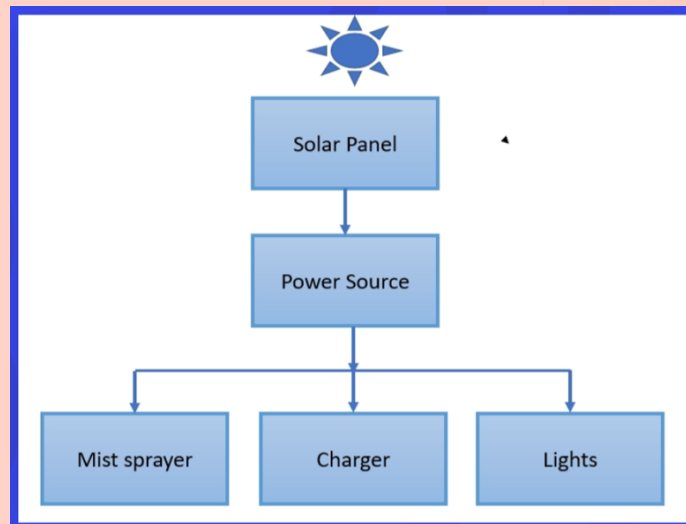


Fig1:Flow Chart

## CONCLUSION

In this project, a society related problem is taken and solution is Brought up. The smart umbrella and Its Functionalities are Very Useful for Present Day Life. The Renewable Energy Source Sunlight Is Used and Supplies The Power To all The Units .The Mist Is Sprayed As Cooling, The Mobile Phone Charging is provided And Automatic Lights Are Installed That Glow During Night. This Smart Umbrella Can Be Place At public Places, Junctions, Bus Stops. This Is Very Useful Mainly For Watchmen At Organizations, For students, For Traffic Police, And All General People. This Is A Fully automated Machine That Works Day And night.

## **6. DESIGN AND ANALYSIS OF DUAL BAND DIELECTRIC RESONATOR ANTENNA FOR 5G APPLICATION.**

**VADDE RAMESH-----III ECE**

**MANGALI LAKSHMI PRASANNA-----III ECE**

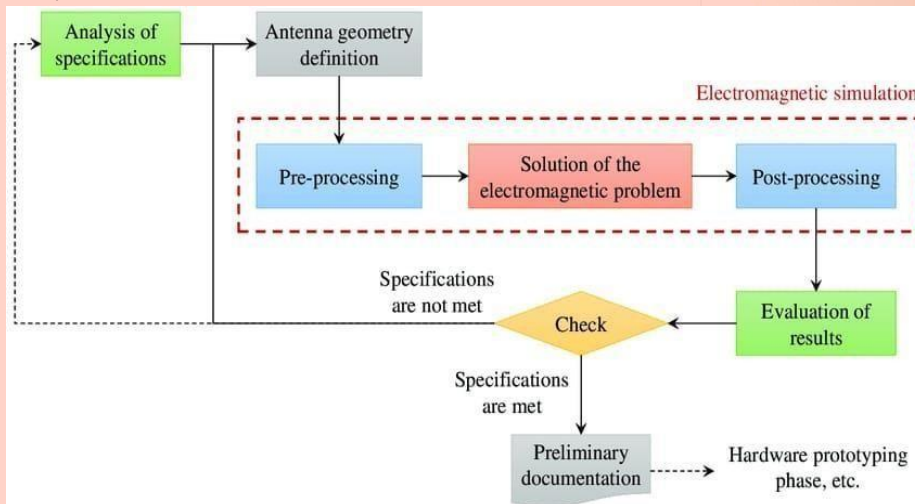
### **INTRODUCTION:**

The need for faster communication is rapidly increasing with the rising demand for multimedia and real-time traffic data. Co-Channel interference is one of the key issues while accommodating users within the same spectrum. High-speed streaming needs advanced technological requirements beyond the 3G and 4G communication systems. The 5G communication technology provides quite a high data rate without any major sacrifice in the user band width [1, 2].

The 5G system has much lower latency and delay compared to the earlier communication systems. With the evolution of each generation, a multifold rise in data rate has been attained by employing advanced technology. The multiple-input multiple-output (MIMO) technology facilitates the requirements of a 5G communication system, and it is expected to also provide the platform for the 6G communication system. In 5G communication, it was necessary to cover multiple frequency resonances to provide coverage to a range of standards and also provide diverse gains within the allocated bands. The MIMO technology provides high spectrum efficiency to facilitate seamless connectivity. The 5G communication system supports a significantly higher count of mobile users with an obtrusive connectivity through adequate frequency channel allocation.

To improve communication reliability, the 5G technology employs multiple antennas. The MIMO technology addresses the multipath fading issue by sending data from multiple transmitting antennas to multiple receiving antennas. The information received by each antenna is different as it undergoes consistent fading across different antennas. A wide range of multiplexing schemes is in existence for providing degrees of freedom by the use of MIMO technology. The mobile terminals are posing a space-constrained environment. Planar and surface-mountable antennas are the most viable choices for supporting multiple antenna systems.

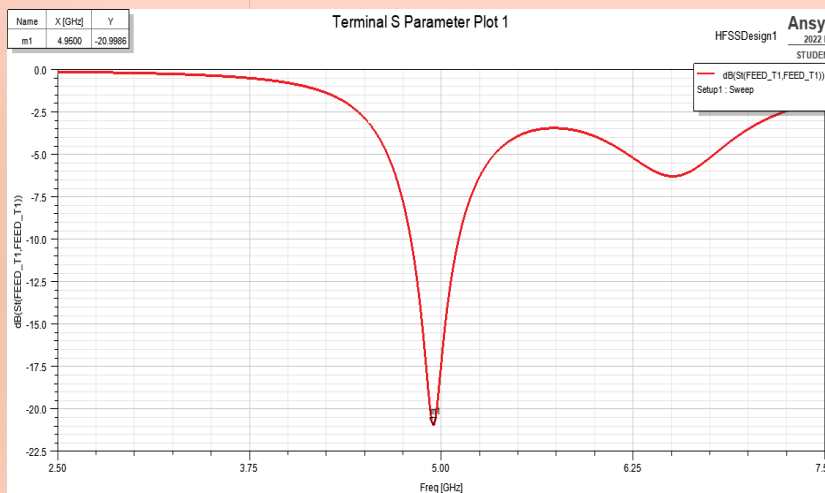
**FLOWCHART:**



**Fig1:Flow Chart**

**S-parameters:**

**S-Parameters (Or scattering parameters)** are used to describe how energy can propagate Through an Electric Network. S-Parameters Are Used To Describe The Relationship Between different Ports, When It Becomes Especially Important To Describe A Network In Terms Of Amplitude And phase Versus Frequencies, Rather Than Voltages And Currents. From The S-Parameter Matrix, You Can calculate Characteristics Of Linear Networks Such As Gain, Loss, Impedance, Phase Group Delay, And voltage standing wave ratio (VSWR).



**Fig2:Sparameter Plot**

**VSWR Plot:**

VSWR (Voltage Standing Wave Ratio) Is A Measure Of How Efficiently Radio-Frequency Power Is transmitted from power source, Through a transmission line, In to a load .In an idealsystem,100%Of



The Energy Is Transmitted. VSWR Value Under 2 Is Considered Suitable For Most Antenna Applications. The Antenna Can Be Described As Having A “Good Match”. So When Someone Says That The Antenna Is poorly Matched, Very Often It Means That The VSWR Value Exceeds 2 For A Frequency Of Interest. Vswr is A Very Important Parameter In RF Transmission Systems Where A High VSWR Can reduce The Power delivered To An Antenna Or System Significantly. This Can Lead To Reduced Range, Heating Of Cables, Damaged amplifiers, Etc.

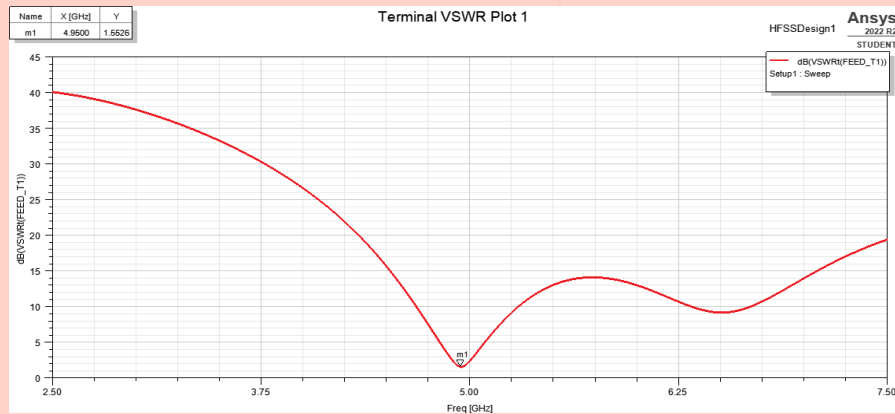


Fig3:VSWR Plot

## CONCLUSION

In This Article We Are Designed Basic Micro strip Patch Antenna and Dielectric Resonator Antenna. In dielectric resonant or antenna dual band dielectric resonant or mimo antenna is proposed electromagnetic Couple Feeding Technique Is Introduced For Dual Band Operation To Optimize Physical properties of antenna using different slots .Antenna operating frequencies are 4.5to5ghzand4.96to5.04ghzrespectively.Variou element dimension are measured using hfss with multiple iterations .The Fundamental Mode Is Utilized To Achieve The Desired Antenna Characteristics. The Advantage of This antenna Is That Provides Different Parameters With Varie Isolation Techniques. The Performance Of proposed antenna provides the utilization Ofsub-6ghz,5G, WLAN Communication applications.



# Dr.K.V Subba Reddy Educational Institutions

Courses : B.Tech., M.Tech., MBA., MCA., Pharm.D., B.Pharm., M.Pharm., D.Pharm & Polytechnic  
NH-44, Kurnool, Andhra Pradesh



## Lion **Dr.K.V Subba Reddy** *Chairman*

M.A.(Lit.), M.Ed., P.G.C.T.E., M.Phil., Ph.D., L.L.B.



# DR.K.V SUBBA REDDY INSTITUTE OF TECHNOLOGY (AUTONOMOUS)

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