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1	CSE	Dr. Jeevitha B K	4VP18CS001 4VP18CS006 4VP18CS027 4VP18CS048	ASSISTANCE SYSTEM FOR VISUALLY IMPAIRED PEOPLE USING AI AND ML	Functional	In today's advanced hi-tech world, the need of independent living is recognized in case of visually impaired people who are facing main problem of social restrictiveness. Due to lack of necessary information in the surrounding environment visually impaired people face problems and are at disadvantage since visual information is what they lack the most. With the help of the advanced technology, the visually impaired can be supported. Proposed system helps such people through anss Android mobile application that focuses on voice assistant, image object recognition, text recognition, etc. The app is capable to assist using voice command to recognize objects in the surrounding, do text analysis to recognize the text in the hard copy document. System also provides voice-based functionalities for call a person and to know phone battery level. It may be the effective way blind people will interact with other people and may help blind people independent life.

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2	CSE	Prof. Krishna Mohana A J	4VP18CS002 4VP18CS080 4VP18CS102 4VP19CS403	SMART WATER QUALITY MASURING AND MONITORING OF MOTOR USING IOT	Functional	Water is an important resource for life and its existence and, unfortunately, large quantities of water are being wasted on a daily basis. Monitoring the consumption of water can control water usage, and smart technologies can play a useful role. In this paper, a smart system based on Internet of Things (IOT) has been proposed to monitor the water consumption in an urban housing complex. An ultrasonic sensor, together with Arduino, continuously monitors the water level of water tanks on rooftops and sends these data to a server through a Wi-Fi module. Using the data collected from the IoT system, the daily and weekly average water requirement of households can be calculated. Support vector machines (SVM) are used to forecast water consumption. The observed readings are divided into training and testing datasets. Water consumption is predicted for each day for a user. Error is recorded as the difference between the actual consumption and the predicted value, and it decreases as the number of days increase. An algorithm to monitor leakage of water in the tanks has also been proposed. A web interface allows the user to visualize the water usage, monitor their consumption, and detect any leakage and leakage rate in the system.

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				EMOTION BASED MUSIC PLAYER	Functional	The human face is an essential part of an individual's body, and it plays a significant role of general knowledge of an individual's psychological state. The appropriate human figure feedback can now be imported directly through the use of a monitor. They can then use this input in many ways. One implementation of this input may be to extract the information in order to deduce an individual's mood. Then, this data can be used to get a list of emotional state-compliant songs derived from the actually provided input. The aim of Emotion Based Music Player is to scan and interpret the data and hence to create a play list depending on the parameters provided. It could however be inappropriate if the music doesn't match the listener's present emotion. In addition, there is no music player that can select songs based on an individual's emotions. This does away with the time consuming. The emotion-based music player to resolve this issue, which can suggest songs based on an individual's emotions such as sad, happy, neutral fear and angry.
3	CSE	Prof. Prabhakar B K	4VP18CS003 4VP18CS007 4VP18CS009 4VP18CS029			
4	CSE	Prof. Pradeep Kumar	4VP18CS004 4VP18CS013 4VP18CS033 4VP18CS047	OBJECT DETECTION DEVICE FOR BLIND PEOPLE	Functional	Basically, it is difficult for blind people pass their day-to-day life with their disabilities. To make their stick smarter, we interfaced some system with their walking stick. In this system we interfaced some smart functions with their stick. Whenever the obstacle is detected on the way through ultrasonic sensor placed on the stick, Camera gets triggered to capture the object which is on the way. The captured image is sent to cloud to identify the type of the object and then it is intimated as voice command through speaker or via earphones connected with Raspberry pi. So that blind can able to identify the object in-

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						front of them, if it is identified that is a human in their way, they can ask for any help. If there is a large obstacle like a car, they can be able to walk based on the object in-front of them. Additionally, by interfacing GPS with the system, with the help of Google maps, the system will automatically navigate their way to home.
5	CSE	Prof. Radhika Shetty D S	4VP18CS005 4VP18CS046 4VP18CS049 4VP18CS052	INTEGRATED ANDROID APP FOR DAIRY FARMERS	Functional	Dairy farming dominates the livestock sector and is a cardinal pillar of agriculture. The dairy farmers aim to ensure that the safety and quality of their milk will satisfy the expectations of the consumers and food industry. The biggest hurdle for the dairy farmers is to have access to updated and timely information. Android application plays an important role in assisting farmers in their day-to-day activities.
6	CSE	Prof. Bharathi K	4VP18CS008 4VP18CS017 4VP18CS018 4VP18CS036	REMOTELY ACCESSIBLE SMART LOCK SECURITY SYSTEM WITH ESSENTIAL FEATURES	Functional	With the rapid increase in the proportion of single households, vulnerability to crime is emerging as a new social problem. Especially for single female families, the anxiety of stranger visitors is known as the biggest problem This project deals with the design approach of an Embedded Real-Time Surveillance System Based Raspberry Pi for intruder detection that reinforces surveillance technology to provide essential security to our life and associated control and alert operations. The proposed security solution hinges on our novel integration of cameras and motion detectors into web application. Raspberry Pi operates and controls motion detectors and cameras for remote sensing. This project is focused on

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						developing a system that detects strangers and to response speedily by capturing and relaying images to owner based wireless module.
7	CSE	Prof. Prabhakar B K	4VP18CS010 4VP18CS031 4VP18CS044 4VP18CS045	MEDIA PLAYER WITH LOOK BASED AND HAND GESTURE	Functional	In this project, we have developed an enhanced media player, which have three modes, that are detecting by hand gesture, sleepy mode and manual mode. In hand gesture recognition mode play, pause, forward, backward, volume increase, decrease and feature exit are present. In sleepy mode, if the user sleeps, then the video is paused. If the user is not present in front of the device, then also video play is paused. System monitors whether the user is looking at the screen or not. In case if the user is not looking at the screen or if the system couldn't detect the user's face, then it immediately stops the video. Controlling other functions of media player such as playing next and previous videos is also done. Along with these, the web camera will also detect the users hand gestures which can be used for performing various events like increasing or decreasing the volume, changing to next video or previous video, etc.
8	CSE	Prof. Shwetha C H	4VP18CS011 4VP18CS023 4VP18CS038 4VP18CS043	IDENTIFICATION OF DIABETIC RETINOPATHY THROUGH CNN	Functional	The diagnosis of diabetic retinopathy through colour fundus images requires experienced clinicians to identify the presence and significance of many small features which, along with a complex grading system, makes this a difficult and time-consuming task. In this project we are using a CNN approach to diagnose DR from digital fundus images and accurately classify its severity. We develop a network with CNN architecture and data augmentations which can identify the intricate features involved in the classification task such as

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						micro-aneurysms, exudate and hemorrhages on the retina and consequently provide a diagnosis automatically. We train this network using a high end graphics processor unit on the publicly available Kaggle dataset and demonstrate impressive results, particularly for a high-level classification task.
9	CSE	Prof. Bhanupriya	4VP18CS012 4VP18CS035 4VP18CS039 4VP18CS050	DETECTION OF COVID-19 AND PNEUMONIA FROM CHEST X-RAY IMAGES USING CNN	Functional	The COVID-19 which was first found in Wuhan, China in 2019, spread all around the world. The total numbers of confirmed cases are above 5.4 million with over 315,000 deaths. Pneumonia is a life-threatening infectious disease affecting one or both lungs in humans commonly caused by bacteria called Streptococcus Pneumonia. One of the basic challenges we face today is the early detection of this disease and putting the patients in special care as soon as possible. It's fast spreading nature makes the situation more complex is not under control. Current diagnosing methods and cures have its own drawbacks and it is clear that we need an alternate solution. Thus, developing an automatic system for detecting COVID-19 and Pneumonia would be beneficial for treating the disease without any delay particularly in remote areas. Machine learning algorithms built on radiography images can be used as decision support mechanism to aid radiologists to speed up the diagnostic process. The proposed system is based on the Convolution Neural Network (CNN) architecture and can automatically expose discriminative features on chest X-ray images due to its convolution with rich filter families and weight-sharing characteristics. Our deep learning model works on a publicly available dataset. In this work, we appraise the functionality of pre-trained CNN models utilized as feature-

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						extractors followed by different classifiers for the classification of COVID-19, Pneumonia and Normal chest X-Rays. With the current resources, this would be hugely beneficial in speeding up disease diagnosis.
10	CSE	Prof. Roopa G K	4VP18CS014 4VP18CS022 4VP18CS034 4VP18CS042	FORENSIC FACE PORTRAY	Functional	In this modern age, the overall crime rate is increasing day-by-day and to cope up with this the law enforcement departments too should find ways that would speed up the overall process and help them in bringing one to justice. One such way can be using face recognition technology for identifying and verifying the criminal. The traditional approach here is to use the hand-drawn face sketches drawn by forensic sketch artist to identify the criminal, modernizing this would mean using the hand-drawn sketch and then matching them with the law enforcement departments database to identify the criminal. Our project is aimed on decreasing the time span and speeding up this process by providing a standalone platform to the law enforcement department which would allow users to create accurate face sketch of the suspect without the help of forensic sketch artist and no special training or artistic skills. The sketch can be created using drag and drop feature in the application with variety of face elements and can automatically match the drawn composite face sketch with the law enforcement departments' database much faster and efficiently using deep learning and cloud infrastructure.
11	CSE	Dr. Jeevitha B K	4VP18CS015 4VP18CS020 4VP18CS028 4VP18CS041	BRAIN TUMOR DETECTION USING DEEP LEARNING	Functional	Brain is the most important part of our Central Nervous System. The abnormal growths of cells in the brain are called tumors and cancer is a term used to represent malignant tumors. Usually, CT or MRI scans are used for the detection of

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						cancer regions in the brain. Positron Emission Tomography, Cerebral Arteriogram, Lumbar Puncture, Molecular testing are also used for brain tumor detection. MRI provides long information concerning the delicate tissue, that helps within the conclusion of brain tumor. MRI scan images are taken to analyze the disease condition. Objective proposed system is works is identify MRI image as normal or abnormal brain with accuracy. Density of the tumor can be estimated from the segmented mask and it will help in therapy. Deep learning technique is employed to detect abnormality from MRI images and extract features automatically.
12	CSE	Prof. Radhika Shetty D S	4VP18CS016 4VP18CS024 4VP18CS025 4VP18CS051	ELECTRIC UNIT PROTECTION FROM LIGHTNING USING IMAGE PROCESSING	Functional	Lightning is an electrical discharge caused by imbalances between Storm clouds and the Ground, Or within the cloud themselves. This natural cause might be harmful to the electronic home appliances, and to prevent that, it is sensible to remove the fuse. In case, people from the house were all outside and had their appliances connected to the power supply, this might cause the lightning to affect the appliances. Safety measures can be taken to remove the fuse automatically with the help of Image processing. The project uses lightning as input and uses Convolutional Neural Network algorithm (CNN) for analysis of images where image contains data of RGB combination.
13	CSE	Prof. Swapnalaxmi	4VP18CS021 4VP18CS026 4VP18CS032 4VP18CS037	SECURITY SYSTEM USING IOT AND MACHINE LEARNING	Functional	Nowadays security is the biggest concern in many parts of the world. There is possibility of theft at homes, shops, workshops and retail stores. So here we propose a security system for this kind of misfortunate events. The system uses cameras and motor controller mounted in the device for securing any

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						premises. It notifies the admin in case of any abnormal sound is detected. A fast security framework is proposed by integrating sensor data and audio features. It monitors each area to detect any problem using a camera. It has the ability to monitor sound in the premises. It displays the live streaming and send the information to server for further processing. The admin will receive an alert notification to his mobile application in case of any abnormal sound is detected.
14	CSE	Prof. Nithin Kurup U G	4VP18CS030 4VP18CS055 4VP18CS061 4VP18CS095	SMART SHOPPING CART USING ML AND IOT	Functional	A shopping mall is a place where people get their daily necessities ranging from food products, clothing, vegetables fruits, etc. Nowadays, purchasing and shopping at big malls is becoming a daily activity in metro cities. We can see a huge rush at malls on holidays and weekends. The rush is even more when there are special offers and discounts. After total purchase one needs to go to the billing counter for payments and wait in long queues to get the billing of the products done. And this pandemic has led us to maintain social distancing constraints. Continuous improvement is required in the traditional billing system to improve the quality of the shopping experience for the customers.
15	CSE	Prof. Supriya A V	4VP18CS053 4VP18CS070 4VP18CS073 4VP18CS079	BONE FRACTURE DETECTION USING IMAGE PROCESSING	Functional	The bone fracture is a common problem in human beings which occurs due to high pressure is applied on bone or simple accident and also due to osteoporosis and bone cancer. Therefore, the accurate diagnosis of bone fracture is important aspect in medical field. The main aim of this project is to detect bone fractures using image processing. The proposed system has the following steps, namely, preprocessing, segmentation, and feature extraction. Image preprocessing are

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						the steps taken to format images before they used by model training and inference. Segmentation is partitioning a digital image into multiple image segment. The system uses a Sobel Edge Detection methodology for segmentation. The Sobel Edge Detector works by calculating the gradient of image intensity at each pixel within image. In the feature extraction step, the system uses Hough Transform technique to find imperfect instances of object.
16	CSE	Dr. Uma Pare	4VP18CS054 4VP18CS058 4VP18CS076 4VP18CS077	SKY DANCE-CUSTOM LINUX DISTRIBUTION	Functional	The Linux operating system occupies a special position in the world of computer science. Unlike the great majority of operating systems, which are produced by commercial developers and sold at a profit, Linux is produced and maintained by a coterie of enthusiastic volunteers and is distributed with no license fees whatsoever. It is available in several versions that run with nearly identical look and feel on a diverse group of hardware platforms. Linux is famed both for its stability and for its efficiency, often running for months, or occasionally years at a time without having to be rebooted, while also achieving excellent performance. It conveys many of the properties of UNIX that have made that operating system extremely popular among computer science professionals. Linux source code is as freely available as the executable code, thus giving users complete freedom to modify and adapt the operating system to the special needs of their systems. Linux maintains the tradition of openness and voluntarism that

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						originally characterized the UNIX world, while at the same time avoiding the concomitant fragmentation experienced by UNIX into a variety of dialects. Linux is likely to continue to increase in importance.
17	CSE	Prof. Raghavendra T K	4VP18CS056 4VP18CS066 4VP18CS069 4VP18CS090	SKIN CANCER DETECTION	Functional	In today's modern world, Skin Cancer is the most common cause of death amongst humans. Skin cancer is abnormal growth of skin cells. Most often develops on the body exposed to the sunlight, but can occur anywhere on the body. Most of the skin cancer is curable at early stage. So an early and fast detection of skin cancer can save the patient's life. With the new technology, early detection of skin cancer is possible at initial stage using image processing. The project Skin Cancer Detection using image processing used in the detection of skin cancer types at its earliest. There are many types of Skin Cancer found. It is difficult to identify the type of Skin Cancer at the earlier stage, Manual identification can often be time consuming and inaccurate. Doctors are able to identify the symptoms of Skin Cancer but unable to identify the type of Skin Cancer in the initial stage. So the Doctors will wait until it gets blot. By that time the disease is out of control. So we are developing software that helps in the Skin Cancer Detection at its earliest by passing valid input images. So this project aims at developing such a method to identify and classify the different types of skin cancer using images.

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18	CSE	Prof. Swapnalaxmi K	4VP18CS057 4VP18CS067 4VP18CS072 4VP18CS082	SENTIMENT ANALYSIS OF KANNADA TEXT USING MACHINE LEARNING	Functional	Sentiment Analysis is sub-domain of opinion mining. Here the analysis is focused on the mining of emotions and opinion of the people towards a specific topic. The emotions and opinions are collected in the form of organized, semi-organized or amorphous data. As the world is slowly progressing towards regional languages. Here we extract the Kannada text, perform analysis and classify them accordingly. The dataset or the corpus is scarce as it is not in English. However, extracting inclusive opinion manually from huge amorphous data would be a tedious task. An automated system called 'Sentiment Analysis or Opinion Mining' can solve this problem, which can analyze and extract the observation of the user throughout the reviews. In this classifier of review analysis, the process classifies the review via corpus, which is the huge collection of pre-defined data. The reviews are converted to text sentence and each word of the sentence are broken down. Data mining task is done to find the sentiment of each word by comparing it with two stored files namely as 0 and 1. Further, the analyzed result is given through text output as positive, negative or neutral sentiments based on their weights.
19	CSE	Dr. Uma Pare	4VP18CS059 4VP18CS075 4VP18CS083 4VP18CS094	SENTIMENTAL ANALYSIS USING ML AND PHP FOR PG MANAGEMENT	Functional	In today's advanced hi-tech world, searching through the web has become very easy and need for searching paying guest (PG) has become a difficult task, so in order to avoid searching everywhere we came up with this project which searches it for us. This website not only enables us to navigate but also include booking system, and rating system which is

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						determined by comments written below and uses natural language processing using machine learning which enables us to accurately determine the rating for the PG using which the users can decide which one to book, also include other type of rating system for factor like food, Hygiene etc. This website also includes a blogging system for PG users who can daily get notification of what is going on in neighboring PG's. The PG owners or clients can upload all the necessary information provided and our system gives a suggestion on which factor that needs to be improved.
20	CSE	Prof. Deepthi M B	4VP18CS060 4VP18CS071 4VP18CS074 4VP18CS093	AURDINO - BLUETOOTH BASED ROBOT CAR WITH GESTURE CONTROL AND OBSTACLE DETECTION	Functional	Internet of Things extends capabilities of real-world objects. The objects are connected to Internet so as to make them capable of sensing the environment around them with least human intervention. The project aims to design an android interface, and Arduino bot by writing program into Arduino microprocessor. Also, Gesture Control which is used to control the model using hand movements. The human hand gestures are sensed with the help of an accelerometer. Obstacle detection and avoidance can be considered as the central issue in designing mobile robots. This technology provides the robot with sensors, which it can use to traverse in unfamiliar environments without damaging itself. The robot was designed to detect the presence of any object within the specified threshold distance. If it detects any kind of obstacles then it automatically stops which protects the model from getting damaged.

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21	CSE	Prof. Pramod Kumar P K	4VP18CS062 4VP18CS091 4VP18CS092 4VP18CS101	ARECANUT GADING MODEL USING CONVOLUTION NEURAL NETWORK	Functional	Arecanut is a commercial crop that grows well in areas with a lot of rain. Arecanuts have economic, cultural, and therapeutic value, and are classified into several varieties depending on the region where they are grown and consumed. In this project , an attempt towards grading of Arecanut images is proposed. The proposed method em-ploys a global textural feature. At first, an image is provided as in-put. The texture feature is then retrieved from each image. The Arecanut dataset is made up of four grades. Arecanut is graded using a Convolution Neural Network. Finally, the accuracy of the grading system is assessed. The experimental results reveal that four grades of Arecanut produce the most promising effects.
22	CSE	Prof. Krishna Mohana A J	4VP18CS065 4VP18CS098 4VP19CS400 4VP19CS402	SIGNATURE AUTHENTICATION AND HANDWRITING RECOGNITION USING MACHINE LEARNING	Functional	Payment is one of the main parts of businesses. Different types of software, hardware, and methods for paying electronically have been presented. Different types of banking cards, E-Wallets, and internet web pages for payment make it possible to pay both online and offline. However, in most payment tools, exchanging money is anonymously and untraceable. Therefore, although most security techniques within payment tools are considered to restrict abuse, if it is stolen, it makes it possible to be abused. Furthermore, the anonymous characteristics of E-money make it possible for money laundering. E-cheque includes both side's names in a business, and also it is traceable. By using e-cheque techniques in payment tools instead of E-money, it is possible to increase payment tools security. The account holder writes an E-cheque using a computer or other type of electronic device and transmits the E-cheque to the payee electronically. Like paper cheques, E-cheques are signed by the payer. Later paying bank validates the E-check and then charges the cheque writer's

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						account for the cheque.
23	CSE	Prof. Roopa G K	4VP18CS068 4VP18CS086 4VP18CS097 4VP19CS401	DEEP CONVOLUTION BASED LSTM NETWORK FOR REMAINING USEFUL LIFE PREDICTION OF AIRCRAFT ENGINE	Functional	The project describes how damage propagation can be modeled within the modules of aircraft gas turbine engines. The rates of change of the faults were constrained to an upper threshold but were otherwise chosen randomly. Damage propagation was allowed to continue until a failure criterion was reached. The data generated were used as challenge data for the Prognostics and Health Management (PHM) data competition at PHM'08. Accurate prediction of remaining useful life (RUL) has been a critical and challenging problem in the field of prognostics and health management (PHM), which aims to make decisions on which component and when should be replaced. We propose that a novel deep neural network named convolution based long short-term memory (CLSTM) network to predict the RLU of aircraft engine. A health index was defined as the minimum of several superimposed operational margins at any given time instant and the failure criterion is reached when health index reaches zero. Output of the model was the time series (cycles) of sensed measurements typically available from aircraft gas turbine engines.

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24	CSE	Prof. Pramod Kumar P K	4VP18CS063 4VP18CS064 4VP18CS078 4VP18CS096	FACE MASK AND SOCIAL DISTANCE DETECTION USING M L	Functional	With the recent outbreak and rapid transmission of the COVID-19 pandemic, the need for the public to follow social distancing norms and wear masks in public is only increasing. According to the World Health Organization, to follow proper social distancing, people in public places must maintain at least 3ft or 1m distance between each other. Our project focuses on a solution to help enforce proper social distancing and wearing masks in public using YOLO object detection on video footage and images in real time. The experimental results shown in this paper infer that the detection of masked faces and human subjects based on YOLO has stronger robustness and faster detection speed as compared to its competitors. Our proposed object detection model achieved a mean average precision score of 94.75% with an inference speed of 38 FPS on video. The network ensures inference speed capable of delivering real-time results without compromising on accuracy, even in complex setups. The social distancing method proposed also yields promising results in several variable Scenarios.
25	CSE	Prof. Bharathi K	4VP18CS081 4VP18CS087 4VP18CS089 4VP18CS099	TEXT EXTRACTION FROM IMAGE AND LANGUAGE RECOGNITION USING MACHINE LEARNING	Functional	Machine learning (ML) architectures based on neural model have garnered considerable attention in the field of language classification. This project describes the application of the images with text of different languages and compares the complexity to identify language at the word level using neural network model. The major contribution of the work is to propose a technique for identifying the language of 3 languages images. Here, we demonstrate that a special class of CNN network model is capable of learning and accurately

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						predicting the languages used in image datasets. The system consists of CNN algorithm. The dataset with images of various language text will be trained to the computer using ML algorithms. Data pre-processing will also be carried out for cleaning the data and for data reduction. During training, features extraction will take place to recognize between different languages. The website helps in uploading the images with text and can predict the specific language.
26	CSE	Prof. Thapaswini P S	4VP18CS084 4VP18CS085 4VP18CS088 4VP18CS100	RICE LEAF DISEASE CLASSIFICATION WITH CNN USING TRANSFER LEARNING FOR EARLY IDENTIFICATION	Functional	Rice is an important food crop around the world. It is affected by different diseases at all growth periods of its cultivation. Fungi, viroid, nematodes, bacteria, viruses, temperature, nutrient deficiencies and other environmental conditions cause diseases. The important diseases of rice such as leaf blast, bacterial blight, and brown spot cause damage to rice can greatly reduce yield. Farmers globally deal with the problem of plant diseases diagnosis and for their appropriate treatment. Therefore, real-time and precision identification of rice leaf diseases and medicine suggestion for respective diseases is urgently needed. Recent developments in Deep Learning approaches have tremendously increased the capabilities of visual recognition systems through computer vision technologies. The most popular Deep Learning models leverage for computer vision problems are convolutional neural networks Convolutional neural networks that has confirmed very successful in areas such as image categorization, object detection, image segmentation, etc. It has paved the way for automatic plant disease detection using plant images. In this research, the dataset is limited to train a

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						deep convolutional neural network model InceptionV3. Transfer learning is a popular technique in deep learning where pre-trained models are re-purposed on a related problem. The main purpose of this study is to assess deep convolutional neural networks with transfer learning for the identification of different diseases in the rice plant leaf. The classification accuracy for InceptionV3 is 92%. System identifies accurate disease in the rice infected leaves by using the proposed method and also it suggests of medication for the identified disease.
27 [parallel]	CSE	Prof. Krishna Mohana A J	4VP17CS069	SIGNATURE AUTHENTICATION AND HANDWRITING RECOGNITION USING MACHINE LEARNING	Functional	Payment is one of the main parts of businesses. Different types of software, hardware, and methods for paying electronically have been presented. Different types of banking cards, E-Wallets, and internet web pages for payment make it possible to pay both online and offline. However, in most payment tools, exchanging money is anonymously and untraceable. Therefore, although most security techniques within payment tools are considered to restrict abuse, if it is stolen, it makes it possible to be abused. Furthermore, the anonymous characteristics of E-money make it possible for money laundering. E-cheque includes both side's names in a business, and also it is traceable. By using E-cheque techniques in payment tools instead of E-money, it is possible to increase payment tools security. The account holder writes an E-cheque using a computer or other type of electronic device and transmits the E-cheque to the payee electronically. Like paper cheques, E-cheques are signed by the payer. Later paying bank validates the E-check and then charges the cheque writer's

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						account for the cheque.

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