Continuous Internal Evaluation (CIE) - 1

Overview of the organization

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Overview of the organization:

GKV GLOBAL TECHNOLOGY is IT Solutions, IT and Industry Staffing Solutions, Product Development (R&D), Software Development, Outsourcing Technical Team and Consultancy started in 2024. GKV Global Technology is a leading provider of comprehensive technology solutions and services, empowering businesses to thrive in a rapidly evolving digital landscape. GKV Global Technology working on latest technologies and real time products developments. GKV Global Technology got placed 600+ diploma candidates during Internship form 2024. Clients QUESS Staffing Solutions, INDO-MIM US based Automation Company, Dhash PV technologies Pvt LTD, Federal, Tech Mahindra, Spark Minda, OTIS, Tata Electronics, Foxconn, Yazaki india pvt ltd, Ather EV Vehicle, **TVS UPASANA** LIMITED, AV-Tech powertrain manufacturers, PreBo Automative, I-Workz, UNO Minda, Nippon Electricals Rakon India Private Limited…,etc .

Vision and mission of organization:

Vision:

We will be the partner of choice for customers worldwide by delivering innovative Embedded products development services, Software development services, IT Services, Consultancy and Outsourcing technical staffs that provide outstanding business value. We are dedicated to being the employer of choice and a good corporate citizen.

Mission:

Clients: Deliver innovative and agile IT solutions for our clients, across industries

Partners: Build strong, mutually benefitting partnerships that ensure value for clients across technologies

Employees: Provide a growth-oriented learning environment for employees worldwide enabling individual excellence

Society: Commit to being a good corporate citizen dedicated to building better communities through social initiatives that make a difference.

Organization Structure:

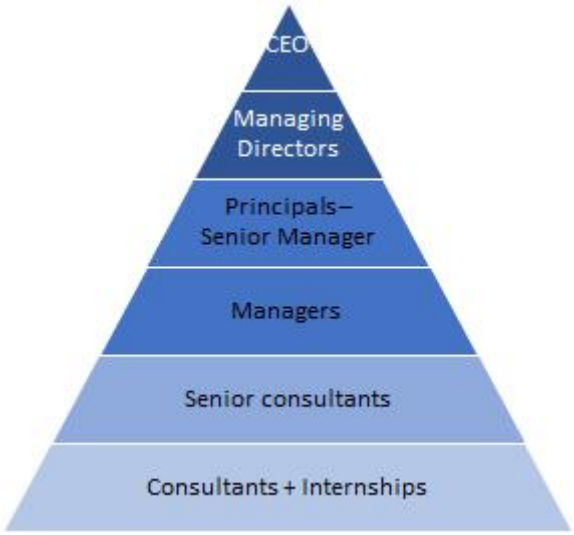
Development Section:

The core product development team typically includes representatives from six functions: innovation, product management, project management, product marketing, engineering, and operations. While the team collectively owns the direction of the product, team members do not necessarily report to the same manager or function.

Less mature companies, for example, might not have dedicated product development teams. Instead, each group in the organization works in a silo — completing the tasks for their specific stage of the product lifecycle. Communication with teammates in other functional areas may be irregular or inconsistent. The problem with this approach is that teams can have divergent goals or sets of priorities. This makes it difficult to align everyone working on the product around what customers need and how you will work together to deliver it.

Collaboration is key. Building a product that delights users at every touchpoint of the customer journey requires clear ownership and a solid understanding of what each role on the product development team entails. No matter the products or offerings you are responsible for, delivering a Complete Product Experience (CPE) is what matters in the end. By integrating diverse perspectives and gaining a holistic understanding of every customer touchpoint, you can make better decisions about the product and deliver an exceptional user experience.

Consulting Firm Structure



GKV GLOBAL TECHNOLOGY consulting firm structure is shown in the figure. In general, consulting firms have a clear hierarchical structure, but the actual titles of individuals may vary from firm to firm. When you first enter, you begin as a consultant/analyst, then after a couple of years you are promoted to a senior consultant/analyst, then manager, then director/principal, and finally after many years of service to a firm, you become a partner. Each position has its own set of responsibilities that aid the firm in successfully completing a project.

Role and responsibilities of personnel in the organization:

There are mainly 3 Key personnel :-

1. The head of production
2. The head of Quality assurance
3. The head of Quality control

Responsibility of Personnel:

- Individual responsibilities should be clearly defined and understood by the persons concerned and recorded as written descriptions.
- All personnel should be aware of the principles of GMP that affect them & receive initial and continuing training, including hygiene instruction, relevant to their needs.
- All personnel should be motivated to support the establishment and maintenance of high quality standards.

- Steps should be taken to prevent unauthorized people from entering production, storage and QC areas.

Responsibilities of the head of production department

1. to ensure that products are produced & stored in accordance with appropriate documentation in order to obtain the required quality
2. to approve the instructions relating to production operations, including the in-process controls, and to ensure their strict implementation
3. to ensure that the production records are evaluated and signed by a designated person
4. to check the maintenance of the department, premises & equipment
5. to ensure that the appropriate process validations and calibrations of control equipment are performed and recorded and the reports made available
6. to ensure that the required initial and continuing training of production personnel is carried out and adapted according to need.

Responsibilities of the head(s) of the Quality Unit(s)

1. to approve or reject starting materials, packaging materials, and intermediate, bulk and finished products in relation to their specifications;
2. to evaluate batch records;
3. to ensure that all necessary testing is carried out;
4. to approve sampling instructions, specifications, tet methods and other QC procedures
5. to approve and monitor analyses carried out under contract
6. to check the maintenance of the department, premises and equipment
7. to ensure that the appropriate validations, including those of analytical procedures, and calibrations of control equipment are carried out
8. to ensure that the required initial and continuing training of quality unit personnel is carried out and adapted according to need

Joint Responsibilities:

1. authorization of written procedures and other documents, including amendments
2. monitoring and control of the manufacturing environment

3. plant hygiene
4. process validation and calibration of analytical apparatus
5. training, including the application and principles of QA
6. approval and monitoring of suppliers of materials
7. approval and monitoring of contract manufacturers
8. designation and monitoring of storage conditions for materials and products
9. performance and evaluation of in-process controls
10. retention of records
11. monitoring of compliance with GMP requirements
12. inspection, investigation and taking of samples in order to monitor factors that may affect product quality

Product and market performance:

GKV Global Technology works on following AI/ML products:

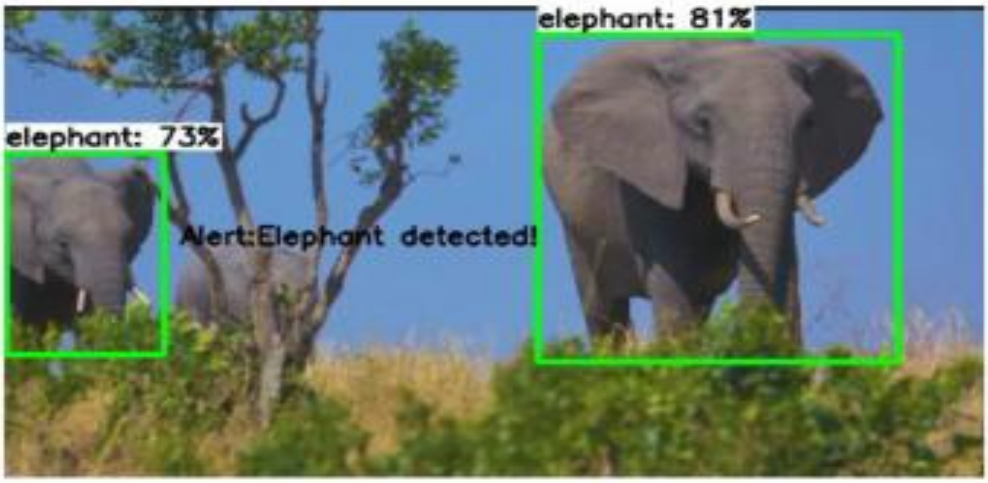
- Real time Unknown Entry Detection for Security System.
- Wild animal detection for agriculture farm protection.
- Real time multiple face recognition system attendance.
- Fire detection using machine learning
- Brain tumour detection using AI
- Breast cancer recognition using AI.

- **Real time Unknown Entry Detection for Security System.**

Nowadays advancement of man-made brainpower is efficaciously engendering; they open up tremendous potential outcomes afore us. The investigation, gauging, and detection went to another level with the utilization of man-made reasoning advancements. As of tardy, an incredibly emboldening field of research is Computer vision. Face detection is a phase where identifying the faces from the images or video sources. It very well may be utilized for remote distinguishing proof administrations for security in regions, for example, banking, conveyance, law requisite, and electrical businesses.

Analytic video is a difficult field in computer vision research. In recent years, ensuring a high degree of security in a public arena monitored by a surveillance video has proven to be a challenging issue. Understanding human behaviour in real time enables surveillance systems to assess unexpected events via video frames. In this project, we propose unknow entry detection in security area with smart alarm system using machine learning algorithm.

- **Wild animal detection for agriculture farm protection.**

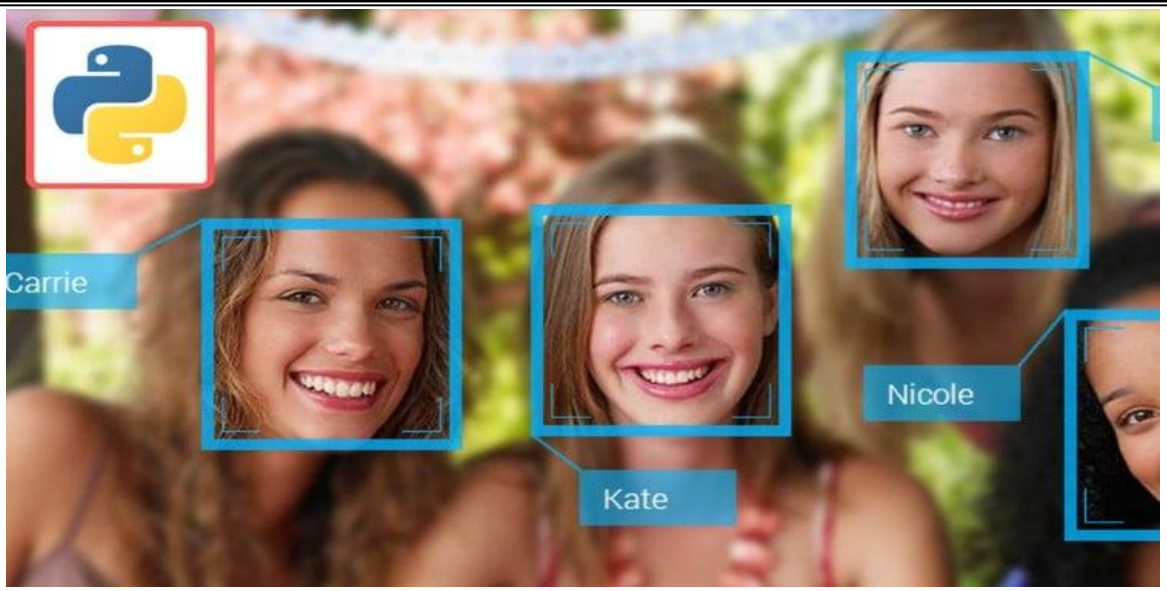


Agriculture is extremely important to a countrys development. Agricultural issues have consistently stymied the countrys progress. Farmers face a slew of problems, including a lack of water for irrigation, crops withering due to climatic changes, nutrient-depleted soils, and crop damage from pests and wildlife. In recent decades, innovation has developed to provide effective solutions to a large number of these difficulties. In any event, agricultural protection from wild animals has not been fully addressed until now. The fields have been destroyed by elephants, monkeys, and wild boars. The production of crops is diminished when wild animals trample them or eat them.

The presence of wild animals on farmland has always been a contentious issue for farmers. Deer, wild boar, moles, elephants, and monkeys are just some of the animals that might ruin a harvest. When the farmer isn't there, these animals may eat the crops and wander the field, which is bad for the harvest. Because of this, yields might drop significantly, and supplementary financial protection could be necessary to cope with the fallout. This problem has to be solved as soon as possible, and a workable solution needs to be found and put into action. Accordingly, the goal of our programme is to address this problem.

GKV GLOBAL TECHNOLGY developing the real time wild animal detection and alert system for farm land protection purpose. we use Artificial intelligence (AI) technology for implementing this project.

- **Real time multiple face recognition system for attendance.**



The Facial Recognition System for Student Attendance Management project introduces an innovative approach to address the challenges associated with traditional methods of attendance tracking in educational institutions. In today's digital era, manual attendance processes are not only time consuming but also prone to errors, leading to discrepancies in attendance records. This project aims to automate the attendance tracking process by leveraging advanced facial recognition technology, streamlining administrative tasks, and enhancing overall efficiency.

The implementation of a facial recognition system offers several advantages over conventional attendance-taking methods. Not only does it eliminate the need for manual data entry, but it also provides a more accurate and reliable means of identifying students. Additionally, biometric authentication enhances security and reduces the risk of forgery or impersonation, ensuring the integrity of attendance records. Moreover, adopting facial recognition technology aligns with the broader trend of digital transformation in education, enabling institutions to embrace innovative solutions to optimize operational processes. By developing a Facial Recognition System for Student Attendance Management, this project seeks to contribute to the advancement of attendance tracking practices, ultimately benefiting both educators and students alike.

- **Fire detection using machine learning**

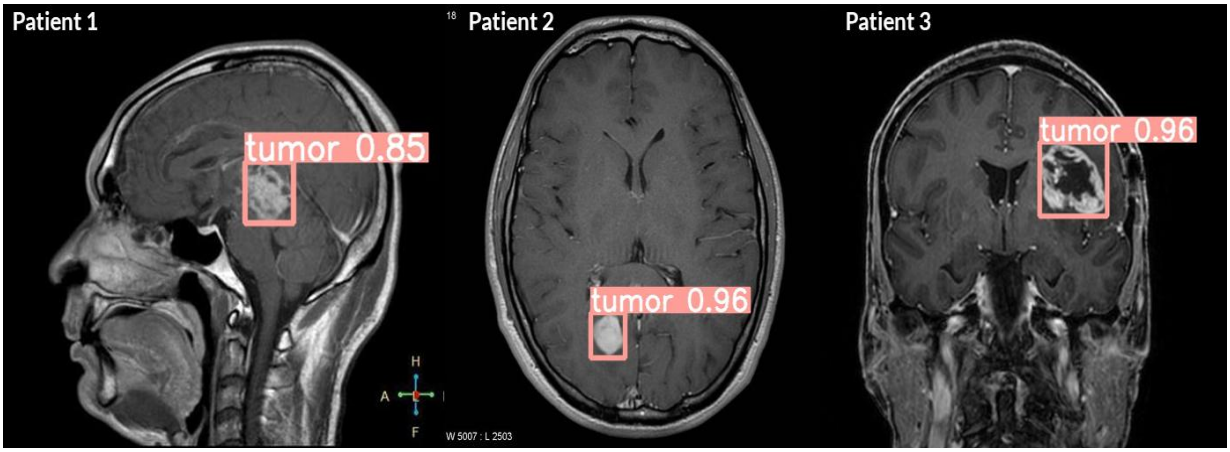
Forest fires are a matter of concern because they cause extensive damage to environment, property and human life. Hence, it is crucial to detect the forest fire at an earlier stage. This can help in saving flora and fauna of the region along with the resources. Also, it may help to control the spread of fire at initial phase. The task of monitoring the forests is difficult because of the vast territory and dense forest.

The wide ranging adverse ecological, economic and social impacts of forest fires including forest degradation are:

- loss of valuable wood resources
- deterioration of catchment areas
- loss of biodiversity and extermination of flora and fauna
- loss of wildlife habitation and exhaustion of wildlife
- global warming

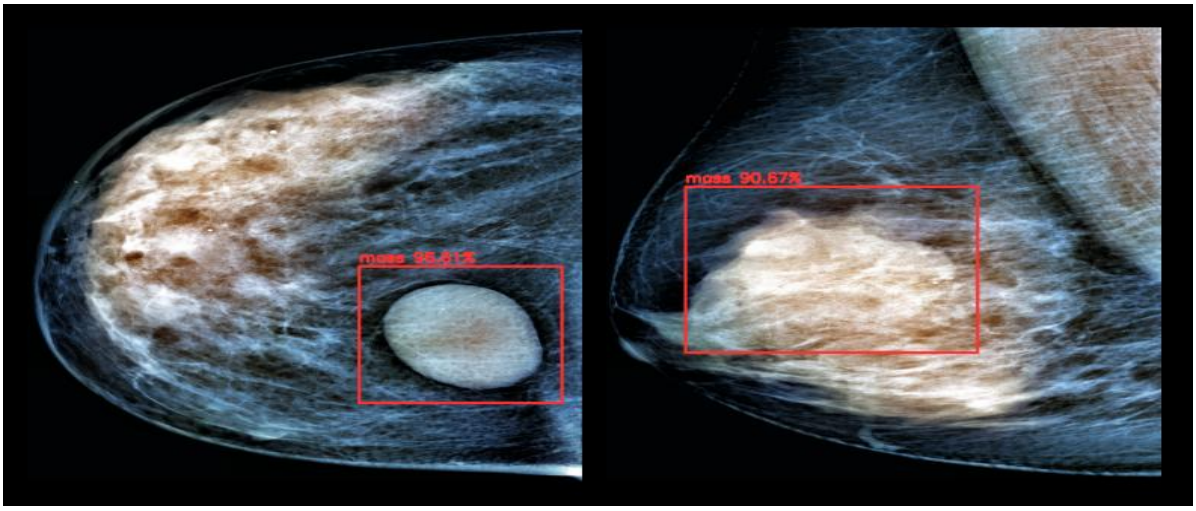
The forest fire has become a threat to not only to the forest wealth but also flora and fauna and ecology of the environment of the region. The main cause of forest fires can be categorized under natural and man-made classes. High atmospheric temperature, lightening and dryness (low humidity) offer positive environment for a fire to start which are the natural causes for forest fire. The fire is also caused by Man-made sources like naked flame, cigarette, electric spark, etc. GKV GLOBAL TECHNOLOGY implementing Real time Fire detection and automated alert application-oriented products.

- **Brain tumour detection using AI**



Now a day's tumor is second leading cause of cancer. Due to cancer large no of patients are in danger. The medical field needs fast, automated, efficient and reliable technique to detect tumor like brain tumor. Detection plays very important role in treatment. If proper detection of tumor is possible then doctors keep a patient out of danger. Various image processing techniques are used in this application. Using this application doctors provide proper treatment and save a number of tumor patients. A tumor is nothing but excess cells growing in an uncontrolled manner. Brain tumor cells grow in a way that they eventually take up all the nutrients meant for the healthy cells and tissues, which results in brain failure. Currently, doctors locate the position and the area of brain tumor by looking at the MR Images of the brain of the patient manually. This results in inaccurate detection of the tumor and is considered very time consuming. A tumor is a mass of tissue it grows out of control. We can use Artificial intelligence (AI) technology to find brain tumor which support for doctors fast treatment and reduce the testing cost for patients.

- **Breast cancer recognition using ML:**



According to the Centers for Disease Control and Prevention (CDC)Trusted Source, breast cancer is the most common cancer in women. Breast cancer survival rates vary widely supported by many factors. Two of the most important factors are the type of cancer women have and the stage of cancer at the time they receive a diagnosis. Breast cancer is cancer that develops in breast cells. Typically, the cancer forms in either the lobules or the ducts of the breast. Cancer also can occur within the adipose tissue or the fibrous connective tissue within your breast. The uncontrolled cancer cells often invade other healthy breast tissue and may visit the lymph nodes under the arms. Doctors say that breast cancer happened due to abnormal growth of cells in the breast and these cells spread in size like Meta Size from breast to lymph nodes or the other parts of the body also. Hence it is necessary to detect and stop the growth of these unwanted cells as early as possible to avoid the next phase consequences. GKV GLOBAL TECHNOLOGY implementing Machine Learning (ML) Based Breast cancer detection for doctors fast and accurate treatment purpose.