**AI-DRIVEN ANIMAL ALERT SYSTEM: EMPOWERING EARLY DETECTION AND INTERVENTION**

**ABSTRACT**

Animals that can see, such as humans, perceive things through eyes in a way that looks instinctive and natural. Creatures utilise their visual system to traverse their surroundings, recognise and interact with other creatures, and understand and adapt to their immediate environment from an early age, and frequently from the time of birth. In order to be employed for a variety of activities, an animal's visual system is therefore continually taught and modified. In the case of humans, for instance, this system functions with the light signal being collected by the eye and transmitted to the brain through the optic nerve where it is processed and interpreted. The words "computer vision," "digital image processing," and "digital image analysis" are frequently used to refer to techniques that are comparable. The majority of this misunderstanding results from the interrelated nature of these sectors, which evolved with the advancement of digital picture capturing. Thus, it is important to comprehend how these fields are related, how a digital image is created, and the distinctions between the many sensors that are accessible, each of which is best suited for a variety of applications. The discipline has developed quickly since the introduction of charge-coupled devices, which marked the beginning of digital imaging. In this project, we will periodically check in on the entire farm using a camera that will continuously capture its surroundings. We identify the presence of animals using a deep learning model, and then we play the proper sounds to frighten them away.

**SOFTWARE REQUIREMENTS**

* Front End : Python
* Back End : MySQL