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AMRUTA INSTITUTE OF ENGINEERING & MANAGEMENT SCIENCES
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AIEMS BENGALURU

LUMPY DISEASE DETECTION IN COW AND INTIMATIOM USING DEEP LEARNING

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Abstract

The Most Contagious Diseases in the world for cattle include Foot and Mouth Disease (FMD), Lumpy Skin Disease (LSD), and Infectious Bovine Kerato Conjunctivitis (IBK). For these disorders to be controlled, early diagnosis is essential.

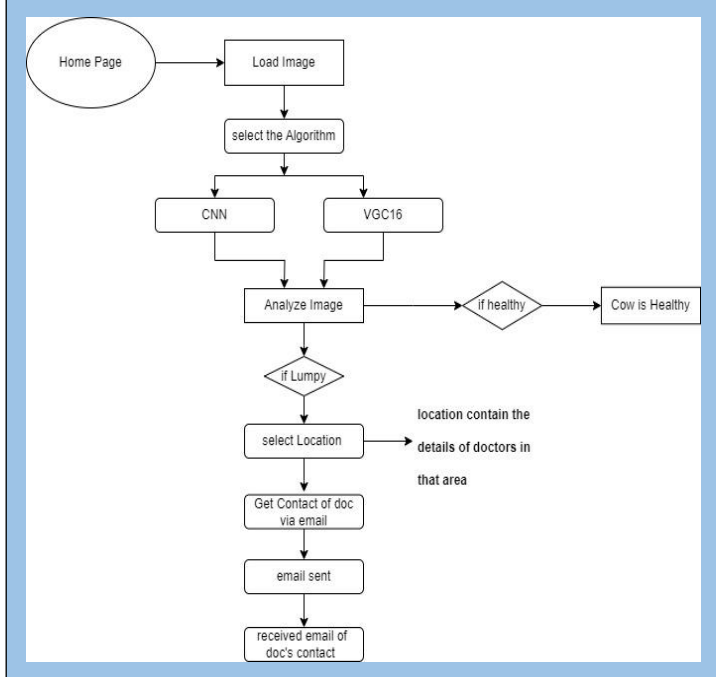
Lumpy disease is one of the viral diseases that is causing the life threat In order to provide them the early diagnosis by detecting the disease using the CNN and VG16 Algorithm can help the farmers who has the cows, to detect the diseases in early and get them treated.

Introduction

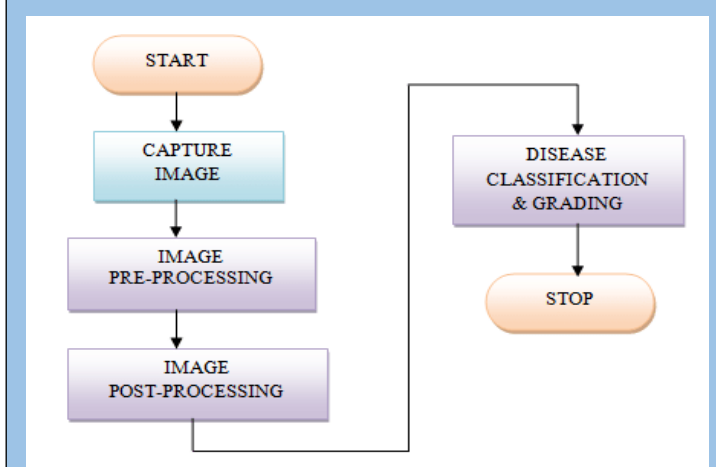
The skin is a crucial component of an animal's body. A viral disease that affects cows and is spread by biting insects is lumpy skin disease. Large skin nodules spanning the entire body, fever, nasal discharge, disseminated lymph nodes, and lachrymation are the disease's hallmarks. The most common locations for lumpy skin disease are India, Russia, Egypt, Oman, and Africa. It was initially discovered in Egypt. The virus can also spread less frequently by direct contact with the saliva, nasal discharge, milk, or semen of infected animals.

Unfortunately, Lumpy Skin Disease cannot yet be treated with any specific antiviral medications. The only treatment that is available is cow support. Additionally, we can consider treating skin lesions with wound care. Sprays and the use of medicines to stop Pneumonia and subsequent skin infections.

System Design



Flow Chart



System Requirements

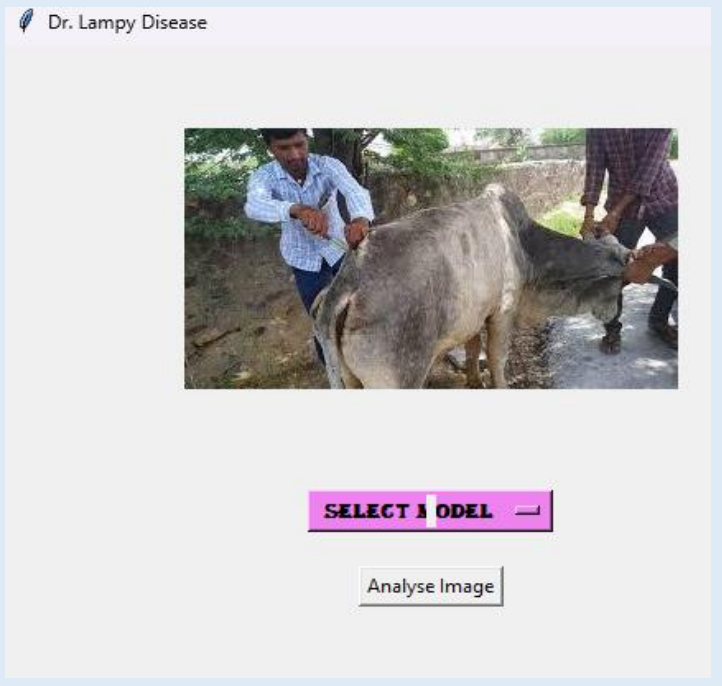
Hardware Requirements

Operating System:	Linux /MacOS
RAM:	16GBMinimum.
Internal storage:	500 MB.

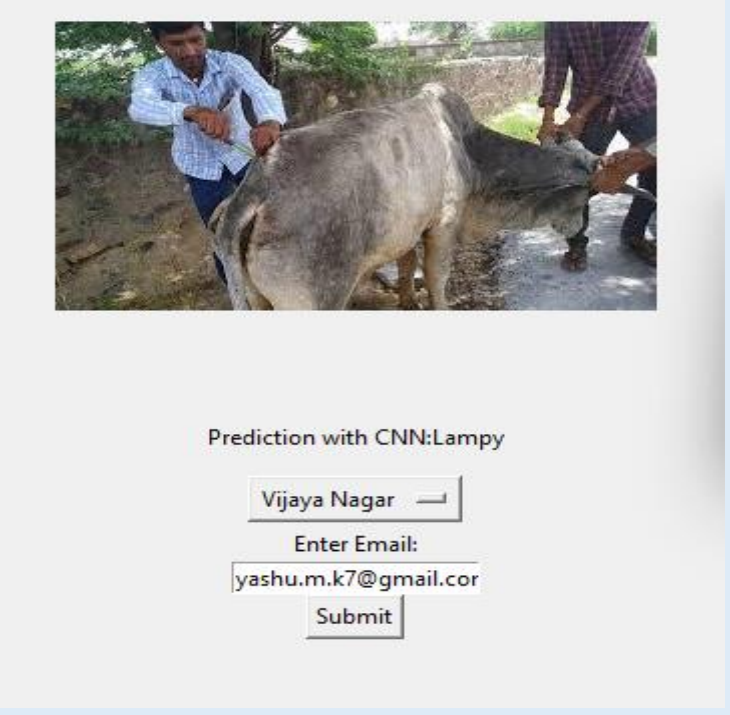
Software Requirements

Operating System:	Linux or MacOS
Coding Language:	Python 3.0
Tools:	PyCharm/vs code
Library: Tinker.	Keras, numpy,

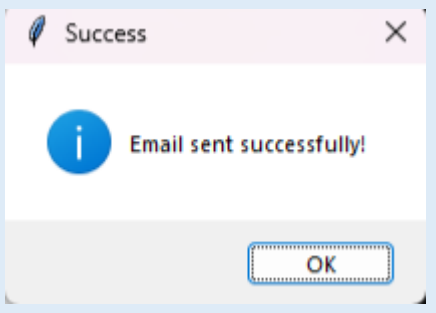
Result

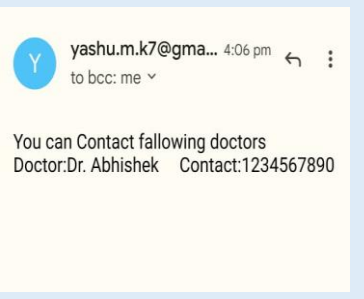


Loading image and selecting the model to detect disease



Lumpy disease is detected





Through the email the selected area's veterinary doctors now will be provided to the user.

Problem Statement

Today's environment is being harsh on every individual,

Most of the animals are getting affected by the unknown creatures such as virus, fungus etc., cows are getting affected most often. Vet doctors are most of the time not available to seek the medical support for cows is not easy. in order to treat them before-hand and get the doctor's help in time, this application will help to inform the doctors through getting their number and get medical diagnosis earlier.

Conclusion

The system for Lumpy skin disease detection in cow using a CNN will be designed to be modular and flexible, with separate components for pre-processing, CNN implementation and training, and evaluation. The system is designed to be easy to use and maintain, with clear documentation and code structure.

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