CAMERIN FOLKS

Abstract: Wildlife Species Detection with Photo Gallery App

The **Wildlife Species Detection with Photo Gallery App** is an interactive application designed to identify and classify wildlife species from uploaded images using Convolutional Neural Networks (CNNs). The app allows users to upload an image of an animal, and the model provides real-time predictions about the species. The backend is powered by a CNN model trained on a diverse set of wildlife images, enabling accurate detection of various species such as elephants, lions, tigers, and more.

In addition to the species detection feature, the app includes a **Wildlife Photo Gallery**, where users can explore a collection of wildlife species images categorized by their names. Each species in the gallery is accompanied by essential information such as its habitat, diet, and conservation status, providing an educational aspect to the application.

This project integrates **TensorFlow/Keras** for deep learning, **Streamlit** for creating a user-friendly interface, and **OpenCV** for image processing. The application aims to promote wildlife awareness, education, and conservation through technology, making it a valuable tool for wildlife enthusiasts, researchers, and educators.

The app provides a seamless experience with additional features such as dynamic image uploads, real-time detection, and a user-friendly photo gallery for an engaging and informative experience.

FontEnd Html/Css/Js/Bootstrap

BackEnd Django

System:7i intel Core