Deep Ornithological Bot

A Streamlit Application dashboard with built-in Deep Learning bot

Dashboard Organisation

Title

→ Hydralit Component (Navbar)

    → About

    → Encyclopedia

    → Intelligent Bird Identifier

    → Bird Gallery

Functional Aspect

→ Python Script to Get Brief Information

- Representation

- Habitats

- Places where we can find

- Important Links

- Download as pdf?

Methods → WikiAPI, GoogleImageAPI

Gallery Page Organisation

→ Future Updates will have

- Categorization based on

    ○ habitats/regions

- Appearance

- Size

- → Streamlit Columns(3)

Bird-0

Bird-1

Bird-2

Identification Page Organisation and Functionality

→ Catalogue of Model files Loaded into the Memory, user will choose one basing off of the mentioned Accuracy Metrics.

→ Resultant Bird Name will then parameterise the Encyclopedia Page functions to display the information regarding that bird.

Exception Case:

→ if the Bird Classified is incorrect, user is then able to see the classifications of other models within the Catalogue to choose from.

Else:

→ Try another Image of the Same Bird or it may even not exist in the 315 species

Encyclopedia Organisation

Traits

→ Appearance

Image

→ Size

→ Weight

→ Habitat

Brief Summary

→ Info

References

→ Links to Wiki and others?