Project Objective

Date	05 November 2022
Team ID	PNT2022TMID30275
Project Name	Project - Digital Naturalist - AI Enabled tool for Biodiversity Researchers
Maximum Marks	

- Augmenting a dataset to virtually increase the size of small datasets in order to make our machine learning models work better.

- Pre-process the images to a machine-readable format.

- Applying CNN algorithm on the dataset.

- How deep neural networks are predicting the class and subclass of a given image.

- You will be able to know how to find the accuracy of the model.

- You will be able to build web applications using the Flask framework.

- Digital Naturalism investigates the role that Digital Media can play for Biological Field Work. It looks to uphold the naturalistic values of wilderness exploration, while investigating the new abilities offered by digital technology.

- Digital Naturalism unites biologists, designers, engineers, and artists to build and analyse new devices. It focuses on crafting DIY technology and interacting with animals in new ways.

- In particular, Digital Naturalism looks at how digital media can be used to explore animal behaviours situated in their natural context. Most recently, this research has been carried out directly in the field in the form of Hiking Hackathons.

- A naturalist is someone who studies the patterns of nature, identifies a different kind of flora and fauna in nature. Being able to identify the flora and fauna around us often leads to an interest in protecting wild

spaces, and collecting and sharing information about the species we see on our travels is very useful for conservation groups like NCC.