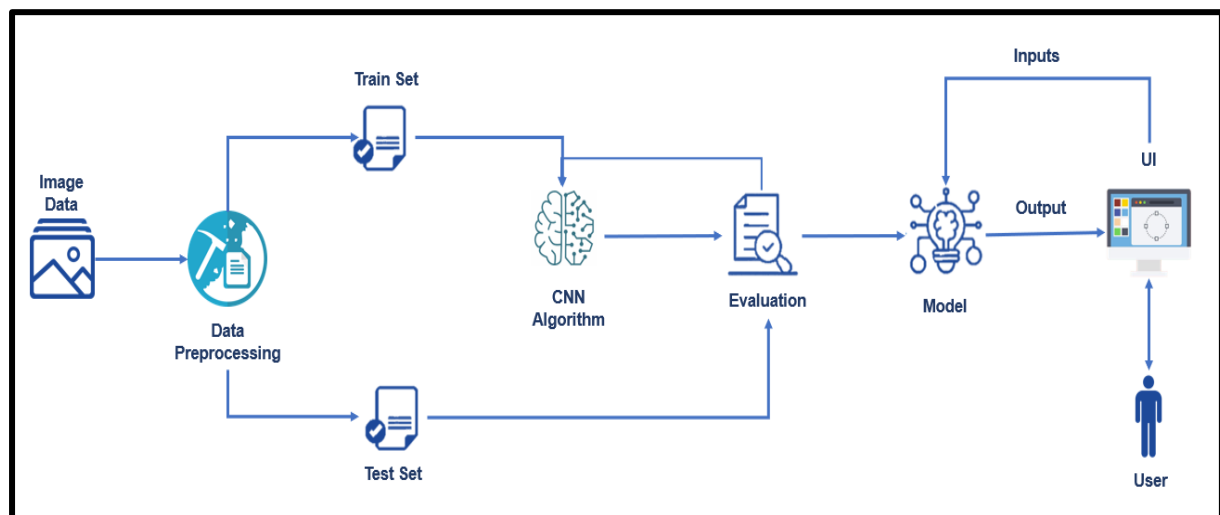


# DIGITAL NATURALIST - AI ENABLED TOOL FOR BIODIVERSITY RESEARCHERS

## PROBLEM STATEMENT:

- 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.
- When venturing into the woods, field naturalists usually rely on common approaches like always carrying a guidebook around everywhere or seeking help from experienced ornithologists. There should be a handy tool for them to capture, identify and share the beauty to the outside world.
- Misinterpretation can be a major problem in predicting the species

## ARCHITECTURE FOR THE SOLUTION:



- The defined problem statements lead to focus on building a multi-layered deep Convolutional Neural Network (CNN) model that classifies the species of the bird when an image of the bird is given

- Any camera can be used to take the image of the bird and compared with the pre trained model and the species of the bird is identified and showcased on our user interface

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