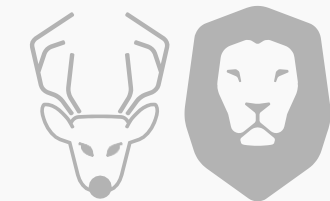


IBM PROJECT
BRAINSTROMING AND IDEATION



Digital Naturalist-
AI Enabled
tool for
Biodiversity
Researchers.

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. Field naturalists can only use this web app from anywhere to identify the birds, flowers, mammals and other species they see on their hikes, canoe trips and other excursions. in this project, we are creating a web application which uses a deep learning model, trained on different species of birds, flowers and mammals (2 subclasses in each for a quick understanding)and get the prediction of the bird when an image is beengiven.

1
Define your problem statement
What problem are you trying to solve? Frame your problem as a How Might We statement. This will be the focus of your brainstorm.

5 minutes

PROBLEM

1. Identify the flora and fauna using deep learning techniques and to recommend the related information about them.
2. Provide dataset information for recognized flora and fauna.?

Key rules of brainstorming
To run an smooth and productive session

- Stay in topic.
- Encourage wild ideas.
- Defer judgment.
- Listen to others.
- Go for volume.
- If possible, be visual.

2
Brainstorm
Write down any ideas that come to mind that address your problem statement.

10 minutes

Keerthana s

endangered species library	floral dependency	online ornithologist
dataset customization	user friendly web application	wildlife and santuaries locator

Ramya s

medical documentary	user contribution	Geo habitat locater
snake poison classification	prediction classification on shapes	online ichthologist

Abina A

ebook	animal sound detector	individual pattern recognition
DL based animal classifier	sworn enemies(animal territorials)	Fossil findings

Priyalakshmi P

semantic links(linked open data)	breed specializations	foodchain classifier
individual pattern recognition	significant use dichotomous key	dichromatic classification

Abina A

bio-inspired algorithms	online ornithologist	leaf analysis(floral)
season forecasting using migration	delieverables from animals after decease	footprint impression analyzer

3
Group ideas
Use this space to group similar ideas from the brainstorm. Each group should have a title that describes what the ideas have in common. If a group is bigger than six sticky notes, try and see if you and break it up into smaller sub-groups.

20 minutes

CATEGORY 1

floral dependency	leaf analysis(floral)	significant use dichotomous key
DL based animal classifier	Fossil findings	

CATEGORY 2

online ornithologist	ebook	user friendly web application
online ornithologist	online ichthologist	

CATEGORY 3

prediction classification on shapes	snake poison classification	foodchain classifier
sworn enemies(animal territorials)	dichromatic classification	

CATEGORY 4

Geo habitat locater	wildlife and santuaries locator	individual pattern recognition
season forecasting using migration	dataset customization	

4
Prioritize
Your team should all be on the same page about what's important moving forward. Place your ideas on this grid to determine which ideas are important and which are feasible.

20 minutes

