

PROJECT TITLE	Project - Digital Naturalist – AI Enabled tool for Biodiversity Researchers
TEAM ID	PNT2022TMID49396

## PROJECT STRUCTURE:

The screenshot displays a Jupyter Notebook environment. On the left, the 'EXPLORER' panel shows a project structure for 'DIGITAL NATURALIST'. The structure includes folders for 'augmented data', 'Bird', 'Flower', 'Mammal', and 'Digital Naturalist Dataset'. Under 'Bird', there are sub-folders for 'Great Indian Bustard Bird' and 'Spoon Billed Sandpiper Bird'. Under 'Flower', there are 'Corpse Flower' and 'Lady Slipper Orchid Flower'. Under 'Mammal', there are 'Pangolin Mammal' and 'Senecio White Deer Mammal'. The 'Flask' folder is also visible. The 'model\_train.ipynb' file is selected in the Explorer.

The main code cell in the notebook shows the following Keras model definition:

```

max_pooling2d (MaxPooling2D (None, 110, 110, 256) 0
)

conv2d_1 (Conv2D) (None, 108, 108, 128) 295040

max_pooling2d_1 (MaxPooling (None, 54, 54, 128) 0
2D)

conv2d_2 (Conv2D) (None, 52, 52, 64) 73792

max_pooling2d_2 (MaxPooling (None, 26, 26, 64) 0
2D)

flatten (Flatten) (None, 43264) 0

dense (Dense) (None, 512) 22151680

...
Total params: 22,784,966
Trainable params: 22,784,966
Non-trainable params: 0

/usr/local/lib/python3.7/dist-packages/keras/optimizers/optimizer_v2/adam.py:110: UserWarning: The `lr` argument is deprecated, use
`learning_rate` instead.
super(Adam, self).__init__(name, **kwargs)

#Fitting Model

```

The bottom status bar indicates the Jupyter Server is running locally on Cell 43 of 69. The system tray shows a temperature of 30°C, a weather condition of 'Haze', and the date 16-11-2022.