

PROJECT TITLE	Project - Digital Naturalist – AI Enabled tool for Biodiversity Researchers
TEAM ID	PNT2022TMID00699

## PROJECT STRUCTURE:

The screenshot displays a Jupyter Notebook environment. On the left, the 'EXPLORER' panel shows a project structure for 'DIGITAL NATURALIST'. The main editor area shows the output of a Keras model summary for 'model\_train.ipynb'.

**Project Structure (EXPLORER):**

- DIGITAL NATURALIST
  - augmented data
    - Bird
      - GIB\_AUG
      - SPS\_AUG
    - Flower
      - Corpse\_AUG
      - LS\_Orchid\_AUG
    - Mammal
      - LS\_Pangolin\_AUG
      - SW\_Deer\_AUG
  - Digital Naturalist Dataset
    - Bird
      - Great Indian Bustard Bird
      - Spoon Billed Sandpiper Bird
    - Flower
      - Corpse Flower
      - Lady Slipper Orchid Flower
    - Mammal
      - Pangolin Mammal
      - Senecio White Deer Mammal
  - Flask
    - Aug data.ipynb
    - final\_model.hs
    - final\_model.json
    - model\_train.ipynb

**Model Summary (model\_train.ipynb):**

```

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

```

Below the summary, there is a warning message from Keras:

```

/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)

```

The notebook is titled '#Fitting Model'.