

Cindy Wong Presents:

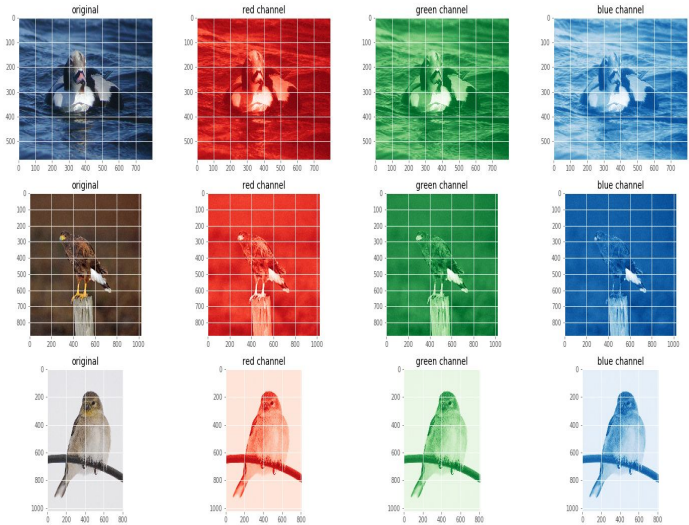
# BIRDEX

## Imagine...

Have you ever had a bird swoop down right in front of you or look up as you're walking outside and using telepathy to tell the bird "please don't do your business on me"? Afterwards, your gaze follows the bird and realizes how beautiful they are, finding yourself wondering what kind of bird just crossed your path.

**BIRDEX** is a Flask web app created for curious users to upload images of birds they have come across and obtain a prediction of which family group of birds it belongs to. It lists out top 3 probabilities in order to capture birds who look similar.

Bird conservation has become increasingly crucial to detecting environmental changes due to their high sensitivity to their surroundings. Using citizen science and identifying types of birds seen in various areas can help track the migratory patterns of birds!



## Model:

The dataset, obtained from the Cornell Lab of Ornithology, utilizes around 21,000 images of 39 family groups of birds.

The convolutional neural network model is trained using transfer learning. Transfer learning is a deep learning technique where a pretrained model is modified and retrained using the desired set of data.

*Happy birding!*

## Technologies Used:



**Check out the project:** [github.com/cwong690/CNN-Image-Classification](https://github.com/cwong690/CNN-Image-Classification)