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**[*1]Pavan H. B, [2]Sai Sujan.S, [3]Vijay Surya Reddy. V. V, [4]Kiran Kumar.R**

[1,2,3,4]Under Graduate Student, Dept. Of Computer Science & Engineering,
Jyothy Institute of Technology, Bengaluru, Karnataka, India

**[5]Mrs. Rekha V**

[5]Assistant Professor, Dept. Of Computer Science & Engineering,
Jyothy Institute of Technology, Karnataka, India.

**Corresponding Author: Pavan. H. B*
*Email: pavanhb0219@gmail.com*

## Abstract:

The bird population is rapidly changing these days for a variety of reasons, including deforestation, forest fires, climate change, human interference, and global warming. Counting birds and tracking their behavior is now feasible thanks to machine learning algorithms that automatically identify different types of birds. This work develops an automatic bird identification system that does not involve physical intervention, as manual identification of many bird species requires a great deal of time and effort. Convolutional neural networks are employed in place of more conventional classifiers like SVM, Random Forest, and SMACPY to accomplish this goal. The main objective is to identify the species of birds by using the dataset that includes the various birds' vocalizations.

## Keywords:

Convolutional neural networks, machine learning algorithms, ecological exploration, Light Weight CNN, Artificial Neural Network (ANN), Animal Species Recognition System