**CONCLUSION**

A model for automatic bird species identification using Artificial Neural Networks model (ANN model) is proposed in this paper. Due to effect of climate changes and count of endangered animal, many researchers proposed animal species recognition system to help them for specific study. In this project we have developed the system to identify bird sound identification using Artificial Neural Network (ANN). Each bird has a different tone of sounds. ANN is applied to classify and recognise the bird sounds using Python. Firstly, all required data in term of power spectral density of bird is used in order to obtain data for each bird types. The next process is to train ANN to identify species of birds. Only one bird can identify in one time. Lastly, the graphical user interface (GUI) of bird sound identification have been developed that required the user to fed audio input of bird sound in order to recognise bird species. This project is done successfully and can be used to identify bird species.

FUTURE SCOPE

This technique allows for a greater number of classes to be worked on when identifying and classifying bird species, resulting in more accurate findings. Successfully using this software as a product can be extremely valuable as a useful tool for estimating bird population size, recognizing natural habitats, and following a wide range of other species Environmentalists and wildlife admirers might also benefit from a user-friendly programmed. Also, because RNN has internal storage to remember its input, using it for categorization can improve accuracy.