Academic Year: 2019-20
Best Projects (U.G)

S.No.	Name of the Student(s)	Project Title	Areas of Specialization	Type	Contribution/Achievement/ Research Output	Matching with the stated POs and PSOs
1	P. Bhavani - 16A81A0536 Ch.Laksmi Bhavani - 16A81A0507 D. Vishnavi - 16A81A0511 K. Naga Mallika - 16A81A0524 G. Sai Kiran - 16A81A0515 **Project Supervisor** **Mr.R.L.PhaniKumar**	Cancer Detection Using Convolution Neural Networks	Neural Networks	Application	As cancer has become one of the prone diseases since last few decades and it has become comparatively difficult for the doctors to detect the symptoms of cancer. This application is useful for detecting the variations in WBCs present in our blood and works by collecting the blood images and detecting the variations in the white blood cells present in the blood.	PO(1,2,3,4,5,9,10,11,12) PSO(1,2)
2	B. Dharani - 16A81A0573 D. Bharathi - 16A81A0581 A. Lakshmi Sandeepthi - 16A81A0562 A. Mahesh Babu - 16A81A0566 **Project Supervisor** **Dr.V. Venkateswara Rao**	Emotion Recognition From Streaming Of Audio Clip	IOT	Application	Emotion Recognition from speech is a recent 'state of the art' topic of research in the Human Computer Interaction (HCI) field. To make the human computer interaction more robust, the objective is that computer should be able to recognize emotional states in the same way as we humans do. The proposed system aims at identification of basic emotional states such as anger, surprise, neutral, fear, happy and sadness from human speech. To build the project emotion recognize from audio clips by using python libraries	PO(1,2,3,4,5,9,10,11,12) PSO(1,2)

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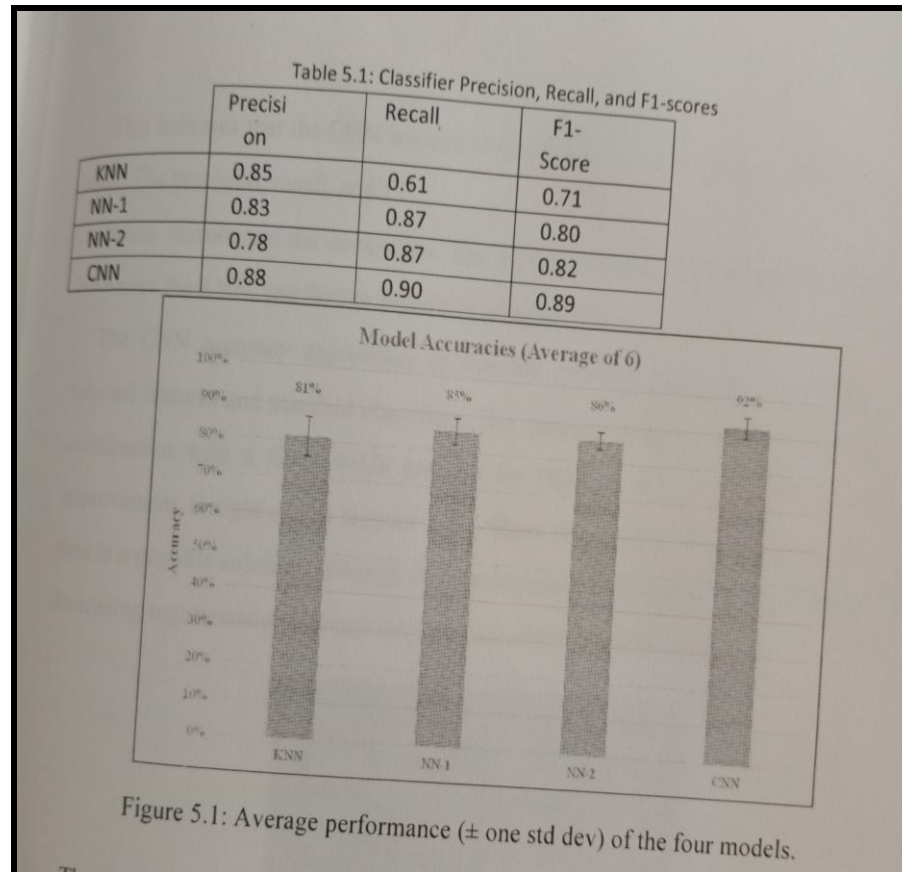
S.No.	Name of the Student(s)	Project Title	Areas of Specialization	Type	Contribution/Achievement/ Research Output	Matching with the stated POs and PSOs
3	G.Yuva Sri Durga -16A81A05D7 R.Hema Sai -16A81A05H1 K.Ganesh Kumar - 16A81A05E9 U.J V S Prakash - 16A81A05H6 SK.Reyaz Ahamad - 16A81A05H4 **Project Supervisor** **Dr.J.VeeraRaghavan**	Comparison Of Classification Algorithm On Bird Species Identification From An Image	Machine Learning	Application	Identification of bird species is a challenging task often resulting in ambiguous labels.It is a difficult problem that pushes the limits of the visual abilities for both humans and computers. Our project aims to employ the power of machine learning to help amateur bird watchers identify bird species from the images they capture and we apply deep learning approach to classify the images in contrast to conventional machine learning algorithms. By using deep convolutional neural network (DCNN) algorithm an image converted into grey scale format to generate autograph by using tensor flow, where the multiple nodes of comparison are generated.	PO(1,2,3,4,5,9,10,11,12) PSO(1,2)
4	E. Sirisha - 16A81A05J1 S. Harshini Sai - 16A81A05M4 P.S.B. Valli - 17A85A0504 Ch.H.V.S. Sairam - 16A81A05I9 **Project Supervisor** **Mr.K. Venkatesh**	Automatic Pet Feeding	IOT	Application	For animals taking food in time by their own is difficult and the maintenance is a bit complicated for owners in journey times when the pet is resident at home for feeding. So, we creating a IOT based pet feed device which automatically delivers the food to the pet based on the instructions given by the end user .We can set up the time for feeding the Pet. We are giving a voice signal to the pet for indicating that the food is ready. We can set the rotation angle and container opening duration according to the quantity of food to be served to the pet. In this we use a Raspberry pi connected machine with a plate at the bottom for keeping the food and inside the container, the food is stored.	PO(1,2,3,4,5,9,10,11,12) PSO(1,2)

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Table 5.1: Classifier Precision, Recall, and F1-scores

	Precision	Recall	F1-Score
KNN	0.85	0.61	0.71
NN-1	0.83	0.87	0.80
NN-2	0.78	0.87	0.82
CNN	0.88	0.90	0.89

Model Accuracies (Average of 6)

Figure 5.1: Average performance (± one std dev) of the four models.

Cancer Detection Using Convolution Neural Networks

```
Python 3.8.1 Shell
File  Edit  Shell  Debug  Options  Window  Help
Python 3.8.1 (tags/v3.8.1:1b293b6, Dec 18 2019, 22:39:24) [MSC v.1916 32 bit (In
tel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
==================== RESTART: C:\Users\GDG\Desktop\code.py ====================
['calm', 'calm', 'calm', 'calm', 'calm', 'calm', 'calm', 'calm', 'happy', 'happy
', 'happy', 'happy', 'happy', 'happy', 'happy', 'happy', 'sad', 'sad', 'sad', 's
ad', 'sad', 'sad', 'sad', 'sad', 'fearful', 'fearful', 'fearful', 'fearful', 'fe
arful', 'fearful', 'fearful', 'fearful', 'disgust', 'disgust', 'disgust', 'disgu
st', 'disgust', 'disgust', 'disgust', 'disgust']
(30, 10)
Features extracted: 180
Accuracy: 90.00%
>>>
```

Emotion Recognition From Streaming Of Audio Clip
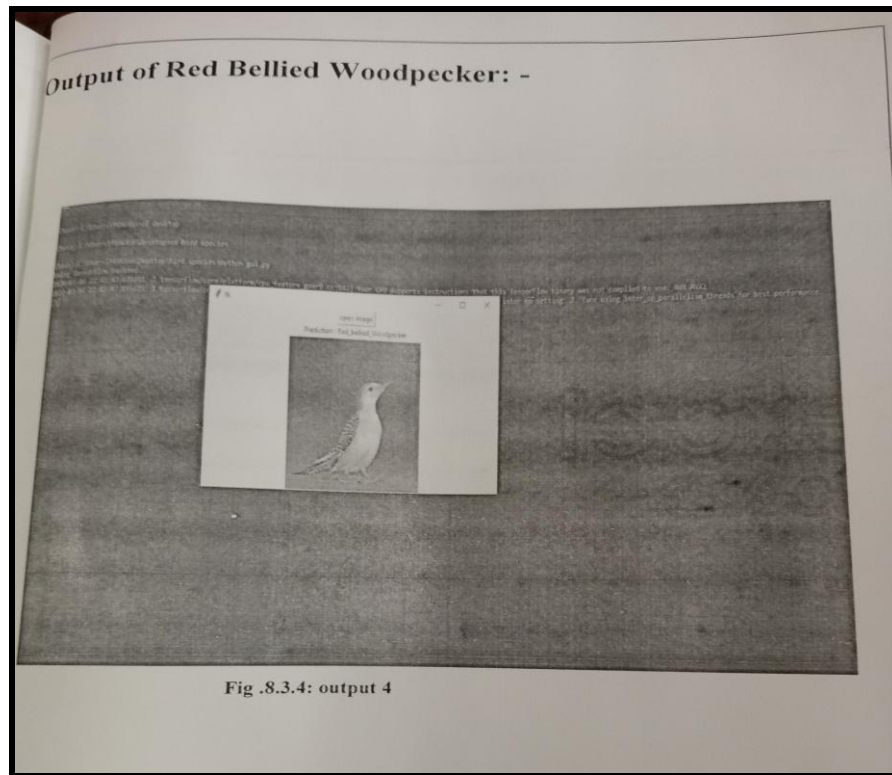
Comparison Of Classification Algorithm On Bird Species Identification From An Image
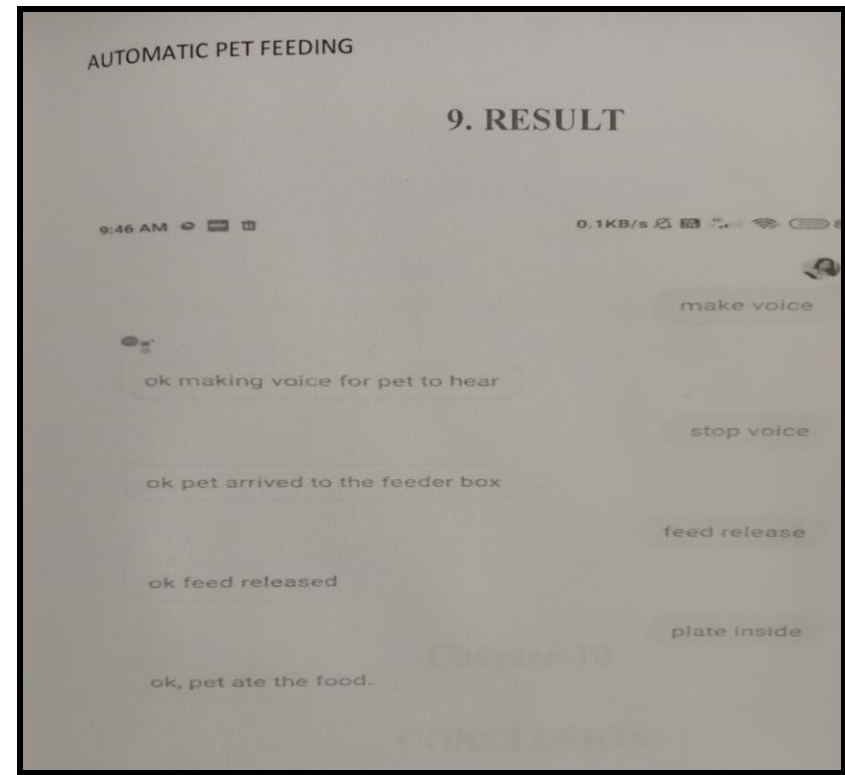
Automatic Pet Feeding

Head of the Department

Head of the Department
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