Academic Year: 2022-23
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	B Keerthana - 19A81A0507 G R S Harshini - 19A81A0514 Ch P Kalyan - 19A81A0508 T RaviTeja - 19A81A0558 **Project Supervisor** **Mr S Kumar Reddy M**	Classification of Pneumonia Using Deep Learning	Deep Learning	Application	Pneumonia is one of the major infectious diseases responsible for significant morbidity and mortality throughout the world. A novel integrated semi supervised shallow neural network framework comprising a SegNet for automatic segmentation of lung CT images followed by fully connected layers is proposed in this project. And a deep transfer learning model in which the input images are segmented and then classification will be done with high accuracy.	PO(1,2,3,4,5,9,10,11,12) PSO(1,2)
2	K H Krishna - 19A81A0591 MD Aafreen Begum - 19A81A05A7 D B V M Raja - 19A81A0578 G Srujitha - 19A81A0579 **Project Supervisor** **Mr M Bhanu Ranga Rao**	Campus Inventory Management System	Web Based	Application	This website facilitates the students to buy and sell the old books as well as some used engineering tools like drafters, aprons and campus kits etc. It also provides a way to rent the books and tools from the peers and seniors of the same college.	PO(1,2,3,4,5,9,10,11,12) PSO(1,2)

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3	A S Renuka - 19A81A05D2 G B Saranya - 19A81A05E8 T Vinay Kumar - 19A81A05I7 V Suneendra - 19A81A05H5 **Project Supervisor** **Dr. G Loshma**	Brain Stroke Detection using Machine Learning Algorithms	Machine Learning	Application	Machine Learning delivers an accurate and quick prediction outcome and it has become a powerful tool in health setting, offering personalized clinical care for stroke patients. By using k-Nearest Neighbours, Logistic Regression, Decision Tree, Random Forest and Support Vector Machine algorithms to generate predictions with high accuracy.	PO(1,2,3,4,5,9,10,11,12) PSO(1,2)
4	K Bhanu Sri - 19A81A05K9 K S R Krishna - 20A85A0521 P Santhosh Kumar - 19A85A05N3 Ch. C P Kumar - 19A81A05K0 **Project Supervisor** **Dr. V S Naresh**	Blood Group Detection Using Image Processing Techniques	Image Processing	Application	The aim of this project is to identify the blood type from different using image processing. A image of blood sample taken as an input and we are applying different image processing techniques like data collection, feature extraction process to detect the blood group.	PO(1,2,3,4,5,9,10,11,12) PSO(1,2)

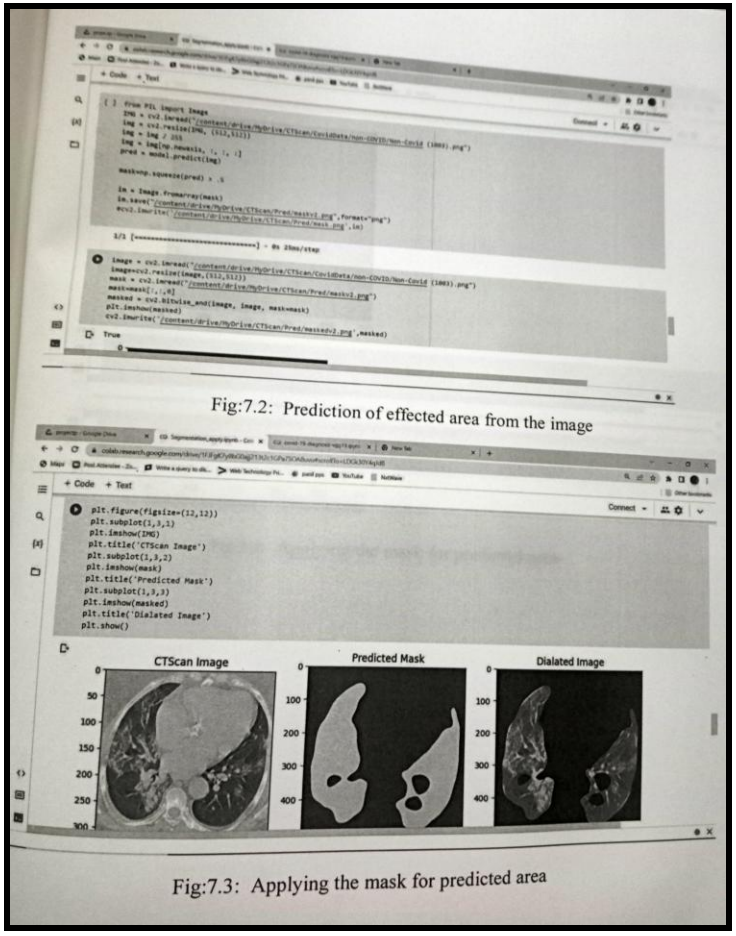
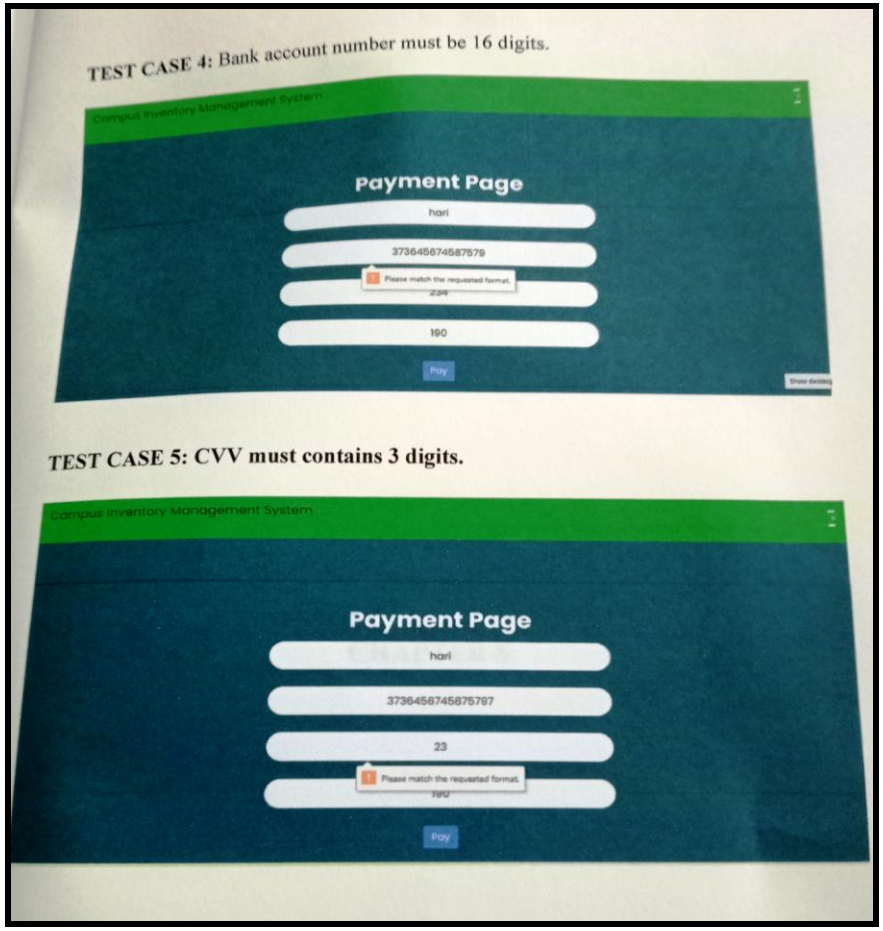


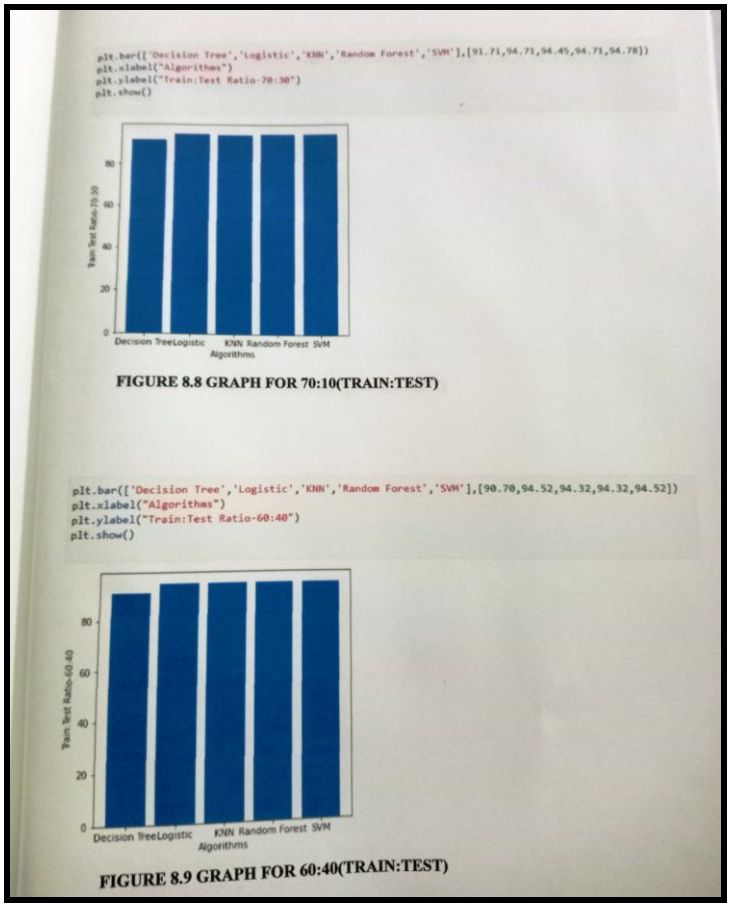
Fig:7.2: Prediction of effected area from the image

Fig:7.3: Applying the mask for predicted area

Classification of Pneumonia Using Deep Learning



Campus Inventory Management System



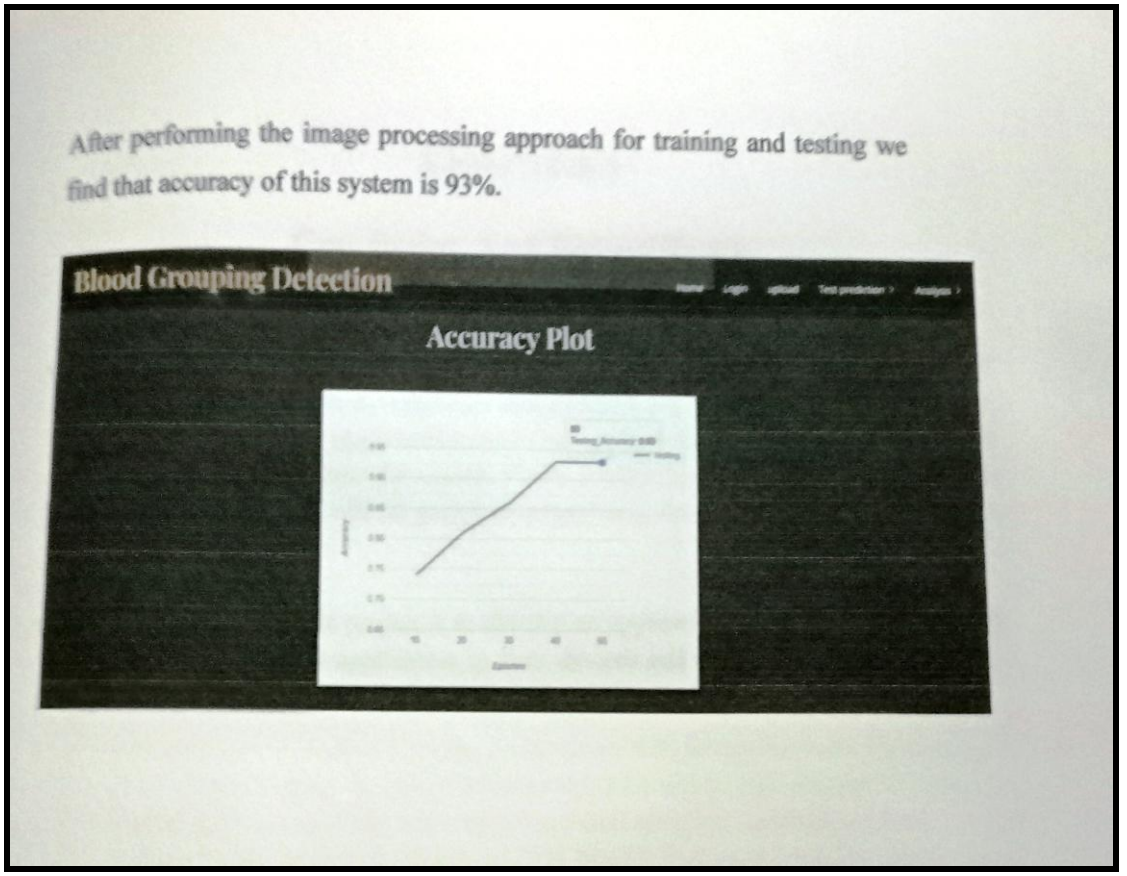
```
plt.bar(['Decision Tree','Logistic','KNN','Random Forest','SVM'],[91.71,94.71,94.45,94.71,94.78])
plt.xlabel("Algorithms")
plt.ylabel("Train:Test Ratio-70:30")
plt.show()
```


FIGURE 8.8 GRAPH FOR 70:10(TRAIN:TEST)

```
plt.bar(['Decision Tree','Logistic','KNN','Random Forest','SVM'],[90.70,94.52,94.32,94.32,94.52])
plt.xlabel("Algorithms")
plt.ylabel("Train:Test Ratio-60:40")
plt.show()
```


FIGURE 8.9 GRAPH FOR 60:40(TRAIN:TEST)

Brain Stroke Detection using Machine Learning Algorithms



Blood Group Detection Using Image Processing Techniques

Head of the Department

Head of the Department
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Mission: To utilize innovative learning methods for academic improvement.
To encourage higher studies and research to meet the futuristic requirements of Computer Science and Engineering.
To inculcate Ethics and Human values for developing students with good character.