SUTRISNA ANJOY

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EDUCATION AND SCHOLASTIC ACHIEVEMENTS

Program	Institution	%/CGPA	Completion
M Tech ,Computer Science and Engineering	Indian Institute of Engineering science and Technology(IIEST) , Shibpur	9.76	2022
B Tech ,Information Technology	Jalpaiguri Govt. Engineering College	8.53	2020
Class XII	M.N.H.S	87.6%	2016

• Secured AIR **4100** in **GATE** CS/IT 2020 by IIT DELHI (**out of 1,00,000+ candidates**)

• Ranked amongst Top 5.7% in WBJEE (out of 1,30,000+ candidates)

PROJECTS and RESEARCH EXPERIENCE				
	Guide : Prof. Dr. Sekhar Mandal (IIEST,Shibpur)			
Lung Cancer detection using 3DCNN	 This thesis claims to detect nodules and its position from the 3d CT scan images .Objective of this thesis is to maximize the accuracy and reduction of false positive cases (databases used are LUNA-16 and LIDC-IDRI dataset). In Preprocessing segmentation thresholding or watershed segmentation is used ,in this thesis I tried to implement deep learning architectures like U-Net , ResNet , AlexNet and different modified 3D-CNN versions. Libraries used are Keras , Pandas , Numpy , Tensorflow ,OpenCV, Scikit-Image. Loss and the Activation function used are Binary Cross-entropy or log loss , ReLu in the hidden layer and Softmax in the output layer. 			
Automatic Vehicle Number Plate Recognition System	Guide : Prof. Dr. Aditya Kr Samanta (J.G.E.C)			
	 Objective of this project is to extract the plate number from an image .For this first perform blurring using bilateral filter then graying the image then perform edge detection using canny edge method from OpenCV,from it detect out rectangular object to find number plate using contouring in OpenCV. Perform OCR using pytesseract package on segmented number plate image. Modules used are numpy , pandas , OpenCV(cv2) ,pytesseract , For plate detection training KNN algorithms with log loss function and ReLu and sigmoid as activation function is used. 			
XML to HTML conversion using LEX and YACC	• Here to create the parser and lexical analyzer I use Yacc and Flex tools in C language provided by Bison Interface .Each token verifies by LEX and each stream of token verifies through yacc to produce the corresponding HTML code of XML input ,erroneous case handled by error handler and error statement produce to stdout .			

SKILLS				
Languages and web -	C/C++ , Python ,LISP , LEX , YACC , PROLOG ,HTML , MySQL ,MS office.	Software -	Git , Linux, Virtual Simulator, MySQL workbench ,DBeaver, Jupyter Notebook ,CLion.	
Libraries -	Numpy , Pandas , Tensorflow , OpenCV , Keras , Scikit image .	Subject -	Data structure and algorithms , Operating system , Adv DBMS , Deep Learning , Compiler Design , Graph Theory ,Networks.	

EXTRA-CURRICULAR ACTIVITIES

- Art, singing, Robotics(Participate in several robotics challenges using arduino and sensors at college level).
- Competitive coding at codechef, Leetcode, hackerrank, hackerearth, GFG. Good programming and algorithm skills in C++, small games using the tkinter library.