| CSE-454: Data Warehousing and Data Mining Sessional | | | |
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| M 1 1 1 | 14 1 ATS | | Projects Ideas |
| Member 1 ID | Member 2 ID | Project Name | Project Short Description |
| 201714035 | 201714052 | AI based Chatbot using NLP and deep neural network | It will be a conversational chatbot. The chatbot will work using both text and audio input. |
| 201614108 | 201614102 | Vehicle License Number Plate Recognition | The project will detect and recognize vehicle license number plate using machine learning. |
| 201614101 | 201614111 | Traffic sign recognition. | This project can be used for achieving accuracy where the vehicles should be able to interpret traffic signs and make decisions accordingly. |
| 201714056 | 201714058 | Fake news detection in context of Bangladesh | Detecting the Fake news using Machine Learning technique. Dataset will be news article id, article title, text of the article, author, unreliable or reliable label marking etc. |
| 201714018 | | CaptionBoT | An Image Captioning Bot which will caption any image given to it. |
| 201714023 | 201714059 | Sentiment analysis for depression based on social media post | In this project sentiment will be analysed using Natural Language Processing on social media posts |
| 201714021 | 201714024 | Breast cancer detection. | We will use different types of classification and regression algorithm like logistic regression,svm, decision tress,random forest and embedded algorithm to detect if a peson has Breast cancer or not. |
| 201714040 | 201714064 | Object detection from image/image segmentation. | In this project we will detect various objects present in an image through robust and efficient Machine Learning algorithms |
| 201614105 | 201614119 | Military Car Recognition | The project will detect and recognize the military car using machine learning. |
| 201614124 | 201614125 | Real time face mask detector | This project will help to identify persons without facemask from a dataset of population. |
| 201714042 | 201714051 | Food Classification | A set of images of different types of food will be taken from a dataset. We will take an image as input, detect it and correctly categorize it into one of the pre-defined categories. |
| 201714045 | 201714063 | Real-time gender and age detection | To automatically predict the age of a person from an image or a video stream Dataset Used: For this python project, we'll use the Adience dataset. It has a total of 26,580 photos of 2,284 subjects in eight age ranges (as mentioned above) and is about 1GB in size. Data Mining Technique used: OpenCV and Deep Learning Input: Images from Adience dataset are first rescaled to 256 × 256 and a crop of 227 × 227 is fed to the network. Output: The prediction is made by taking the class with the maximal probability for the given test image. Here the classes are different range of ages. |
| 201714011 | 201714012 | Emojify | Basically in this project we will implement a model which inputs a sentence and finds the most appropriate emoji to be used with this sentence. Like, If the sentence is "Let's go and see the baseball game tonight" Then for the baseball emoji (□). |
| 201714055 | 201714057 | Speech emotion recognition | The objective of this project is to recognize human emotion and affective states from speech. This is capitalizing on the fact that voice often reflects underlying emotion throughtone and pitch. |
| 201714068 | 201714070 | 4. Covid 19 detection using chest X-ray | We will use convolutional neural networking(CNN) to analys chest X - ray and try to predict wheather the patient has covid 19 or not |
| 201714010 | | Summarizer | Given a long text or passage it is hard to read those long emails or passage and so for making things this Natural Language Processing system creates summary of the passage based on the main context of the passage |
| 201614100 | 201614118 | Music genre recognition. | It describes a system for the automatic recognition of music genres, based exclusively on the audio content of the signal. |
| 201714060 | 201714020 | Heart Disease prediction using Artificial Neural Network (ANN) | A deep learning approach (Artificial Neural Network) to predict the presence of heart disease in a patient based on some attributes. A dataset from kaggle was found for building the deep learning model. Additionally the deep learning model will be deployed and it will be interactable from a web interface. Any user will able to use the web interface to predict the presence of heart disease. |
| 201714002 | | Color Detection of Image with RGB Value | Color detection is the process of detecting the name of any color. Color detection is necessary to recognize objects, it is also used as a very important tool in various image editing and drawing apps. In this color detection Python project basing on csv (comma-separated values) file, I am going to build an application through which we can automatically get the name of the colo by clicking any location on the image. For this, we will have a data file that contains the color name and its values. |
| 201714022 | 201714014 | Handwritten digits recognition using artificial neural network | Our goal is to construct and train an artificial neural network on thousands of images of handwritten digits so that it may successfully identify handwritten digits. The data that wil be incorporated is the MNIST database which contains 60,000 images for training and 10,000 test images. |
| 201514178 | 201714043 | Ocular Disease Recognition using Eye Fundus Photographs | Using Ocular Disease Intelligent Recognition (ODIR) database of 5,000 patients with age, color fundus photographs from left and right eyes and doctors' diagnostic keywords from doctors This project will predict the patients into mentioned disease classifications |
| 201714031 | 201714061 | Image to Bangla Text conversion | we will convert an bangla written image file to text. |
| 201714069 | 201714067 | German to English Translation | Here given a passage in german the machine translate it to English language using NLP |
| 201714006 | 201714008 | Image Tagging | We will try to analylize the objects in the image and depending on the segmentation or object detection and surrounding of the objects we will try to generate a Tag for the objects in the image. |
| 201714001 | 201714003 | Obesity Detector | The project will predict obesity based on different health and family history using ML |
| 201714007 | 201714009 | Restaurant billing management system. | ? |