

Senior Design Project Report

CSE 499

LEARN THE WORLD

Image Captioning Using Machine Learning Algorithm for Android Application



Submitted By

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Agreement Form

We take great pleasure in submitting our senior design project report on “**LEARN THE WORLD (Image Captioning Using Machine Learning Algorithm for Android Application)**”. This report is prepared as a requirement of the Capstone Design Project CSE/EEE/ETE 499 A & B which is a two semester long senior design course. This course involves multidisciplinary teams of students who build and test custom designed systems, components or engineering processes. We would like to request you to accept this report as a partial fulfillment of Bachelor of Science degree under Electrical and Computer Engineering Department of North South University.

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LEARN THE WORLD

Image Captioning Using Machine Learning Algorithm for Android Application

Abstract:

Learn The World, an object learning based Android application, developed based on Machine Learning and Image Captioning. An android application that generates a description of an image that we know as image captioning. Image captioning works after recognizing the important objects, their attributes and their relationship in an image. From the following concept, we aim to designing a learning application, developed based on Image Caption using Machine Learning that detects objects from real time images (means an image taken instant) or previous taken image and describe image behavior with the help of speech descriptor with modifications. Also, our application marks each individual objects according to object annotations and lists the name of particular object on images into machine encoded text with its accuracy. Means it can be used for many purposes like recognizing objects from images, helping children to learn the surrounding behaviors, detect particular objects and so on. That means if anyone, specially a child takes a picture of an event surrounded by them the application will first introduces them with the object included in that picture. And it helps them showing accuracy of the objects present in the picture. They can see the caption and by speech descriptor they can acquired knowledge about the correct pronunciation. This application is very much informative related to children for every day's knowledge gathering.