**Abstract**

This project was an attempt at developing an object detection, classification and language translation system using modern computer vision technology and artificial intelligence. The project delivers an android application that is used to detects and classify objects in any speaking language.

In today’s era of Globalization, people travel to many different countries for many different purposes whether it is business or simply as a tourist. For an individual learning the names of different objects, cuisines and dishes found across the world is a tedious task. This project is to help users overcome this problem with just the use of a Smartphone. The project will use Object detection Technique using Tensorflow to classify objects and then google translate api to get the classification of objects in many different languages.

It can be used in Classification of Different Foods in User's Local Languages and Object Detection and Classification into different languages.

The Application will be Developed using android studio and TensorFlow platform.The object will be detected using a smartphone camera and fed into the Tensorflow model which will process and give out the results.

**Keyword:** Detection,Tensorflow,Computer Vision,MobileNet,Deep Learning

**References**

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2. Research on Computer Vision-Based Object Detection and Classification by-Juan Wu , Bo Peng , Zhenxiang Huang , Jietao Xie

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#### DECLARATION BY THE SCHOLAR

We hereby declare that the synopsis entitled **“Classification of Objects in Multiple Langauges”** under BPUT, ROURKELA, Odisha at **Indira Gandhi Institute Technology, Sarang, Dhenkanal, Odisha** is an authentic record of our work carried out under the supervision **D.K. SWAIN, Dept. of CSEA, IGIT, Sarang.** We have not submitted this major project report elsewhere for any other degree or diploma.

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**INDIRA GANDHI INSTITUTE OF TECHNOLOGY**

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***Certificate***

*****This is to certify that this project entitled “****Object Classification in Multiple Languages****” submitted by* ***Anshuman Sekhar Dash (****1501105478****),Pruthiraj Marndi (****1501105496****), Swagat Dora (****1501105509****) and Sanjay Tudu (****1501105501****)*** *of Computer Science Engineering & Applications Department, Indira Gandhi Institute of Technology, Sarang for the partial fulfillment of the requirements for the award of Bachelor of Technology (Computer Science & Engineering) Degree of BPUT, Odisha, is a record of students own study carried under our supervision & guidance.*

*This report has not been submitted to any other university or institution for the award of any degree.*

*Date:6th April 2019*

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**LIST OF ABBREVIATIONS**

**App** Android Application

**UI** User Interface

**EULA** End User License Agreement

**UX** User Experience

**OpenCV** Open Computer Vision