Self-Attention Architecture for Ingredients Generation from Food Images

A Major Project Report

Submitted to the Faculty of Engineering of

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA,

KAKINADA

In partial fulfillment of the requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

in

COMPUTER SCIENCE AND ENGINEERING

by

CHAPARALA.JYOTHSNA	**18481A0538**
BANDI.BHARGAVI	**18481A0522**
AKURI.ESWAR SRAVANTH	**18481A0504**
ATMURI.TRINADH KUMAR	**18481A0516**

under the guidance of

Dr. K. SRINIVAS, **MTech, Ph.D.**

Associate Professor

Department of CSE

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

GUDLAVALLERU ENGINEERING COLLEGE

(An Autonomous Institute with Permanent Affiliation to JNTUK, Kakinada)

SESHADRI RAO KNOWLEDGE VILLAGE
GUDLAVALLERU – 521356
ANDHRA PRADESH

2020-2021

ABSTRACT

Food filming is becoming more popular among food connoisseurs. Each meal has a narrative that is detailed in a lengthy recipe, and sadly, just looking at a dish provides no insight into the preparation of food. There are various websites that aid in recognizing a meal by its components, however, no method has been successful at forecasting the ingredients in a dish. As a consequence, this research proposes a method for automatically generating the dish's recipe. This approach estimates the image's title and ingredients and then generates the image's featured meal's specific cooking instructions. This investigation looked at a range of Indian cuisines, including lunch and breakfast. To enhance user-friendly, this paper provides a web application that displays the recipe with a photograph of the dish.

Project Guide

(Dr. K. Srinivas)

Team Members

(18481A0538)

(18481A0522)

(18481A0504)

(18481A0516)