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Image Based Food Classification and Volume Estimation for Dietary Assessment

Prof. Malan Sale¹, Atharva Kharage², Divya Phadatare³, Parmarth Mahajan⁴, Shraddha Chhanval⁵

> Faculty, Sinhgad College of Engineering, Vadgaon Bk. Pune¹ Student, Sinhgad College of Engineering, Vadgaon Bk. Pune^{2,3,4,5}

Abstract: These people must manually gather knowledge or information from various sources such as books, people, and so on. However, finding answers to questions about their problems is extremely difficult. So, with this food Recipe Management System project, we are providing the ultimate solution for all of them, namely, we are developing an application that allows each user to submit an image of food. And our system will display the food's recipe. These programmes require a username and password. For reasons of security. and our application contains information on all food items, regardless of region or country. As a result, our application is open to anyone, regardless of country or region. To solve the problem.

Keywords: CNN, Pre-processing, Feature Extraction, etc.

REFERENCES

- [1] Food Category Representatives: Extracting Categories from Meal Names in Food Recordings and Recipe Data Sosuke Amano, Kiyoharu Aizawa.2015 IEEE International Conference on Multimedia Big Data.
- [2] Simultaneous Estimation of Food Categories and Calories with Multi-task CNN Takumi Ege and Keiji Yanai2017 Fifteenth IAPR International Con- ference on Machine Vision Applications (MVA) Nagoya University, Nagoya, Japan, May 8-12, 2017.
- [3] Suggestion Analysis for Food Recipe Improvement Pakawan Pugsee, Monsi- nee Niyomvanich IEEE.
- [4] Food Image to Cooking Instructions Conversion Through Compressed Em- beddings Using Deep Learning Madhu Kumari Tajinder Singh 2019 IEEE 35th International Conference on Data Engineering Workshops (ICDEW).
- [5] RECIPE RECOGNITION WITH LARGE MULTIMODAL FOOD DATASET Xin Wang Devinder Kumar Nicolas Thome Matthieu Cord Fred' eric Precioso IEEE.
- [6] Nanba 2016 19th International Conference on Network-Based Information Systems Food Recipe Finder Mobile Applications Based on Similarity of Materials Gusti Pangestu Ahmad Afif Supianto Fitri Utaminingrum IEEE.
- [7] Inverse Cooking: Recipe Generation from Food Images Amaia Salvador Michal Drozdzal2 Xavier GiroiNieto1 Adriana Romero 978-1-7281-3293- 8/19/31.00 ©2019 IEEE.
- [8] Food Recipe Finder Mobile Applications Based on Similarity of Materials Gusti Pangestu Ahmad Afif Supianto Fitri Utaminingrum IEEE.
- [9] You Are What You Eat: Exploring Rich Recipe Information for Cross-Region Food Analysis Weiqing Min, Bing-Kun Bao, Shuhuan Mei, Yaohui Zhu, Yong Rui, Fellow, IEEE, Shuqiang Jiang, Senior, IEEE. 2017.