Food Additive Lens: An on-device AI application for real-time science-based consumer education on food additives using retrieval-augmented generation

Yihang Feng [a,b], Yi Wang [a], Xinhao Wang [a], Bo Zhao [b], Jinbo Bi [b], Song Han [b,*], Yangchao Luo [a,*]

[a] Department of Nutritional Sciences, University of Connecticut, Storrs, CT 06269, United States

[b] School of Computing, University of Connecticut, Storrs, CT 06269, United States

*Corresponding author

Yangchao Luo, Ph.D.

Associate Professor

Department of Nutritional Sciences

University of Connecticut

Storrs, CT 06269-4017

Tel: 860-486-2180

Fax: 860-486-3674

Email: yangchao.luo@uconn.edu

Webpage: https://yangchao-luo.uconn.edu/

Song Han, Ph.D.

Associate Professor

School of Computing

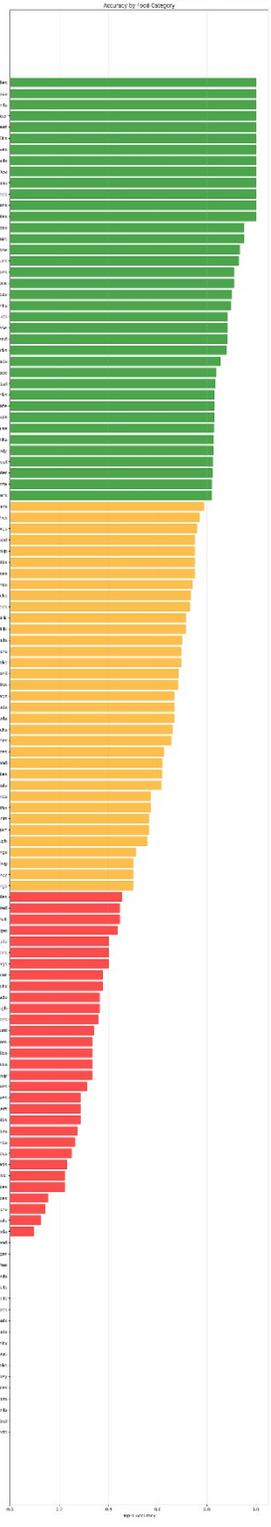University of Connecticut

Storrs, CT 06269-4017

Tel: 860-486-8771

Email: song.han@uconn.edu

Webpage: https://cps.cse.uconn.edu/

Supplementary Information

Figure S1 The food category classifier accuracies for food categories for on-device testing.

Link to download a high-resolution version: Figure S1.png

Demo video of Food Additive Lens
Demo video link: demo video.mp4