Food Classification App



IDS 594 ML Deployment



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Objective

- To deploy the Food Classification Model using Google Cloud Platform
- To facilitate users accessing the image classification model with the ML Application building on Streamlit

Why Google Cloud & Streamlit?

- Simplicity
- User friendly
- Trend



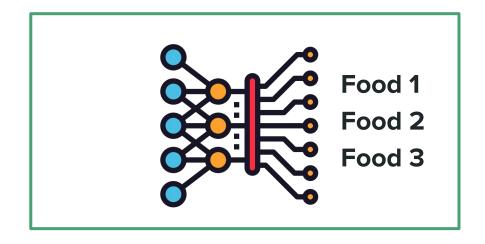
Tools & Methodology

Model:

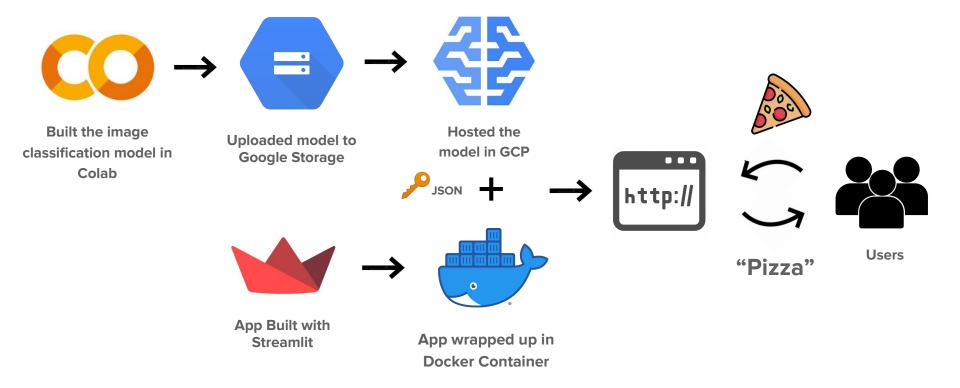
Food Classification (Deep Learning) Model

Tools:

- Streamlit
- Google Cloud Project
- Google Storage
- Docker



Project Workflow



Tools & Methodology

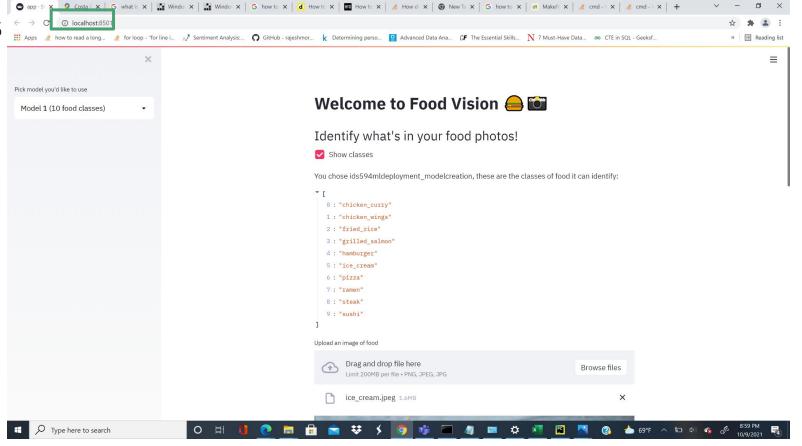




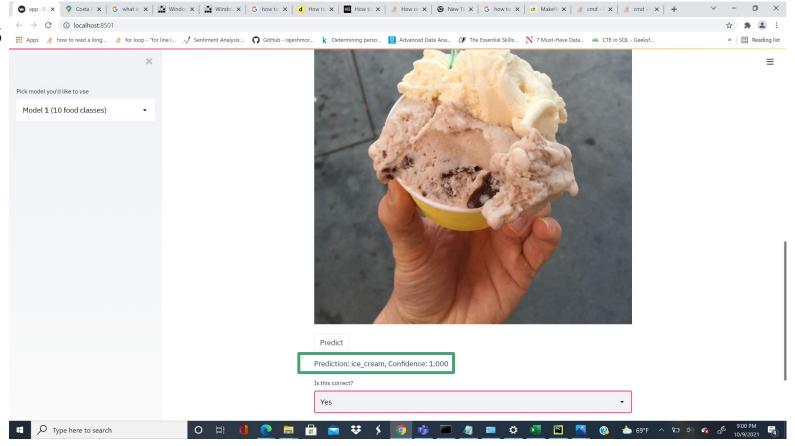
Methodology:

- Develop food classification application locally using Streamlit (app.py)
- Deploy food classification model in GCP
 - Running the model in Google Colab
 - Connect Google Colab with GCP: create the storage bucket and connect
- Connect Streamlit application with GCP
 - Provide JSON key to Streamlit to access the model on GCP
- Deploy the app to App Engine
 - Wrap the model inside the docker and deploy on GCP
- Access the result page

Results



Results



Time to use our App!



