



IMAGE ANALYZER

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Overview

I Develop an intelligent image Analyzer system that leverages Microsoft Azure services, specifically Azure Custom Vision for image analysis and Azure Storage for image storage. The system should allow users to upload images through a user-friendly interface, process these images using a trained Custom Vision model to extract relevant features, and store the images along with their predictions in a MongoDB database. Furthermore, the system should provide real-time feedback to users by displaying image confidentiality based on the predictions made by the Custom Vision model.

Core Idea

The core idea behind your project revolves around building an intelligent and personalized image recommendation system. The problem you are trying to solve is to enhance user engagement and satisfaction by providing relevant and visually appealing image suggestions based on their uploaded images.



Objectives

To create a system that leverages machine learning and cloud services to analyze and understand the content of user-uploaded images, enabling real-time suggestions of similar or relevant images. The core idea involves integrating Microsoft Azure services, specifically Azure Custom Vision for image analysis, Azure Storage for image storage, and MongoDB for data persistence.



Key Requirements:

User-Friendly Interface:

- Develop a responsive web interface that allows users to easily upload images.
- Implement a visually appealing design for a positive user experience.

Integration with Azure Services:

- Utilize Azure Custom Vision for image classification and feature extraction.
- Store uploaded images in Azure Storage for efficient and scalable storage.

Database Integration:

- Establish a connection to a MongoDB database hosted on Azure.
- Create a database schema to store relevant information about uploaded images and their predictions.

Error Handling and Logging:

- Implement robust error handling mechanisms to gracefully manage unexpected scenarios.
- Log relevant information to aid in debugging and maintenance.

Our Mission

Expected Outcome: A fully functional image recommendation system that seamlessly integrates Azure services, provides accurate predictions, and offers an engaging user experience. The system should be capable of handling concurrent user uploads and consistently deliver reliable recommendations based on the trained Custom Vision model.

Trainning Model

Planning

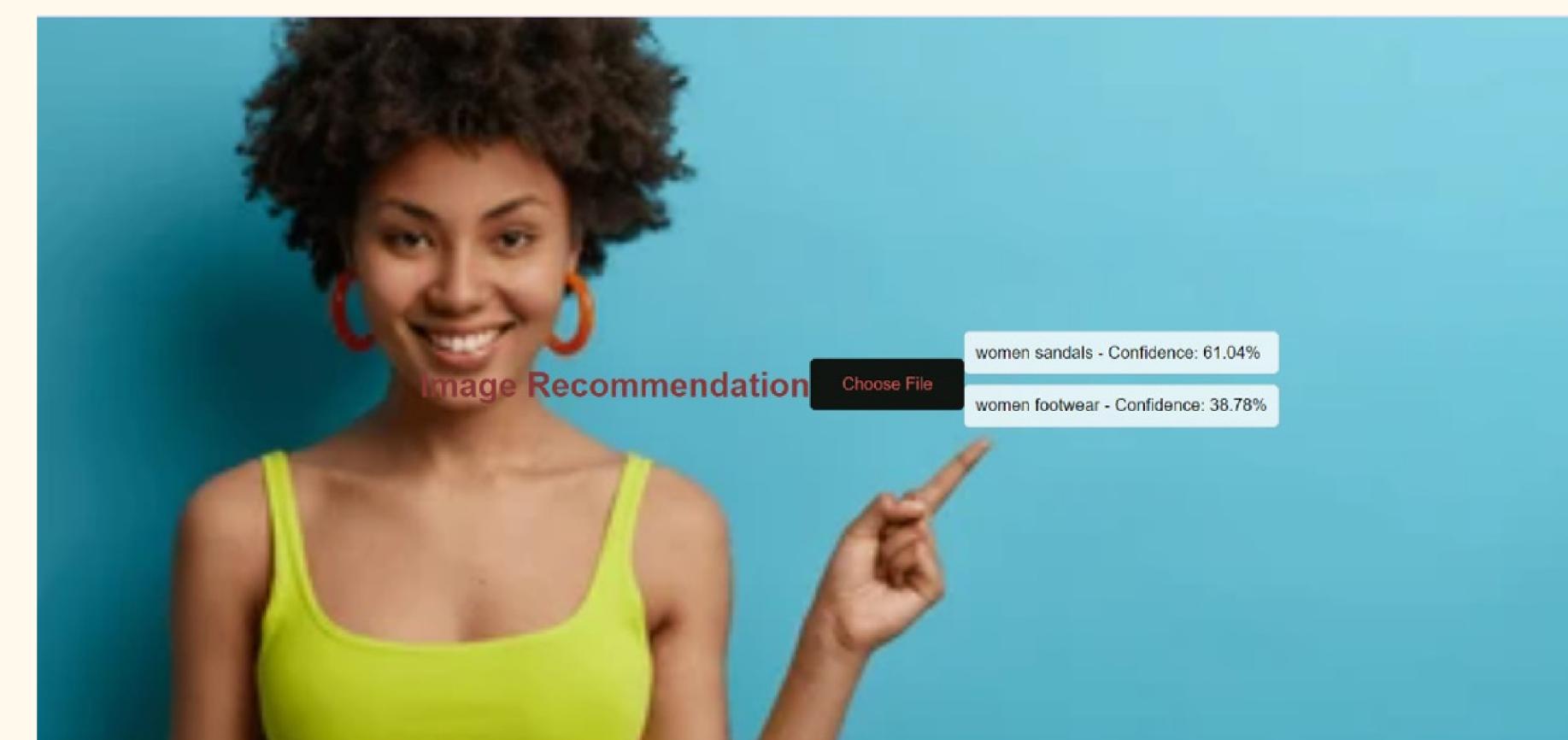
This screenshot shows the Microsoft Custom Vision web interface. At the top, there are search and filter fields for 'Project Name', 'Project Type', and 'Resource'. Below these, a 'NEW PROJECT' button is visible. A project card for 'my project01' is displayed, showing a thumbnail of a dark sock-like item and the text 'CLASSIFICATION my project01 myproject01'. The background features a large, semi-transparent watermark of the word 'Planning'.

Gathering

This screenshot shows the Microsoft Custom Vision 'Training Images' interface for the project 'my project01'. It displays a grid of images categorized under the 'Tagged' tab. The images include various men's and women's clothing items such as hoodies, shirts, dresses, and shoes. On the left, a sidebar lists tags with their counts: men dress (5), men footwear (5), men outfit (5), men shoes (5), women dress (9), women footwear (5), women outfit (9), women sandals (5), and women shirt (5). The background features a large, semi-transparent watermark of the word 'Gathering'.

Optimization

This screenshot shows the Microsoft Custom Vision 'Training Images' interface for the project 'my project01'. It displays a grid of images categorized under the 'Tagged' tab. The images include various men's and women's clothing items such as sandals, high-heeled shoes, casual shoes, and men's suits. On the left, a sidebar lists tags with their counts: men dress (5), men footwear (5), men outfit (5), men shoes (5), women dress (9), women footwear (5), women outfit (9), women sandals (5), and women shirt (5). The background features a large, semi-transparent watermark of the word 'Optimization'.



Thank
you!