

Task: Develop a Web Application for Image Augmentation

Objective: Create a web application using a Python framework that allows users to upload images, generate augmented data from those images, and download the augmented data.

Functionalities:

Image Upload:

- Allow users to upload single or multiple images through a user-friendly interface.
- Ensure the application can handle various image formats (e.g., JPEG, PNG).

Image Augmentation:

- Implement image augmentation techniques such as rotation, flipping, zooming, and colour adjustments.
- Use a library like `imgaug` or `albumentations` to perform the augmentations.

Download Augmented Data:

- Provide an option for users to download the augmented images as a ZIP file.
- Ensure that each original image has multiple augmented versions in the ZIP file.

Hosting:

- Deploy the application using a free or open-source hosting service (e.g., Heroku, PythonAnywhere).
- Ensure the application is publicly accessible via a URL.

Submission:

- Submit the public URL of the hosted application for review.