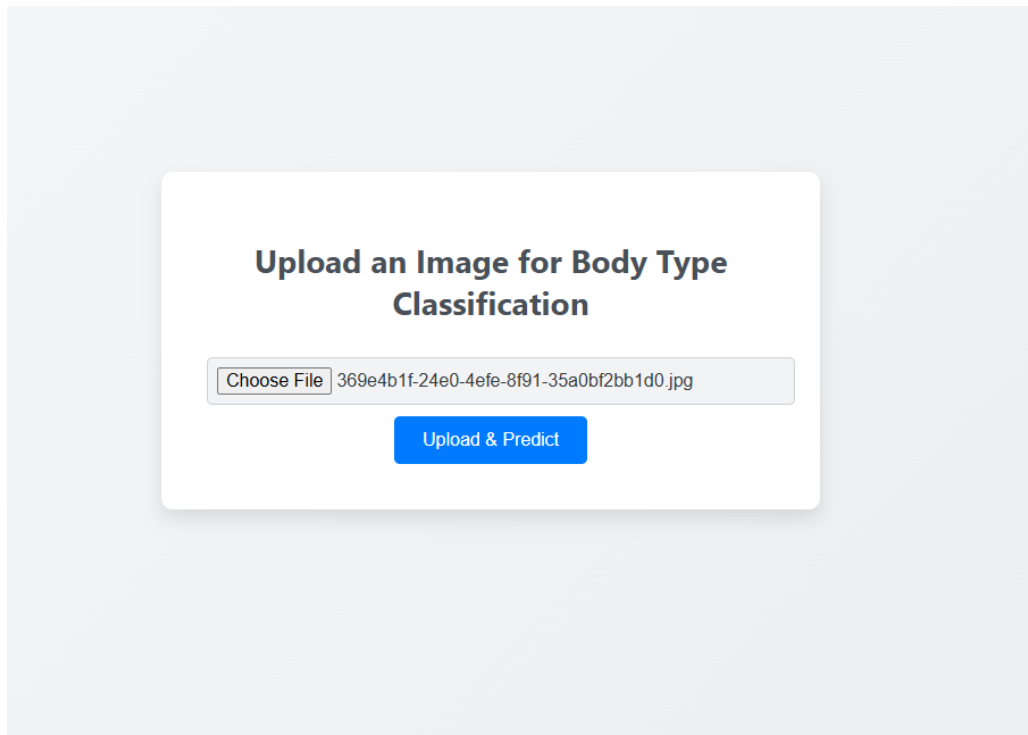


This is the first page of the website, where the user uploads their photo. The choose file button takes the user to their local files from where they can select their photos.



The image shows a web interface for uploading a photo for body type classification. It features a central white card on a light gray background. The card has a title, a file selection area with a 'Choose File' button and a file name, and a blue 'Upload & Predict' button.

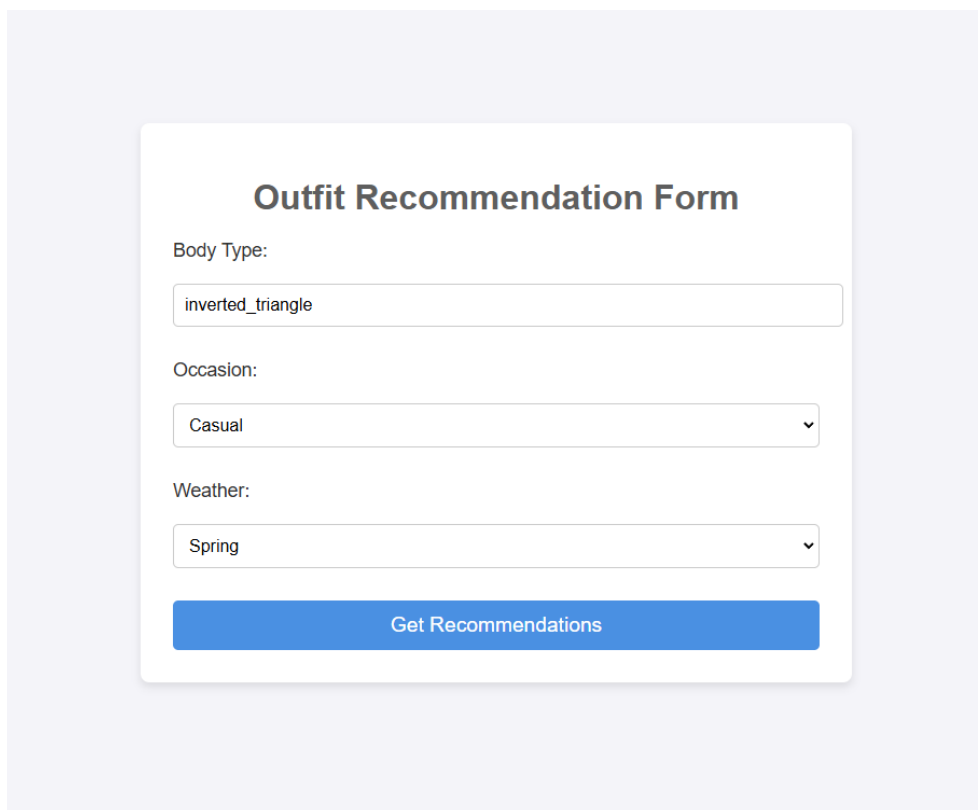
Upload an Image for Body Type Classification

Choose File 369e4b1f-24e0-4efe-8f91-35a0bf2bb1d0.jpg

Upload & Predict

After clicking the upload and predict button the user submits their photo which the model analyses and predicts the body type. This model predicts body type by processing images through a **Convolutional Neural Network (CNN)** trained on categorized body shape images. The input image is resized, normalized, and passed through convolutional layers that extract key features. A fully connected dense layer then classifies the image into one of five body types: **Hourglass, Pear, Apple, Rectangle, or Inverted Triangle**. The model is trained using **Sparse Categorical Crossentropy loss** and optimized with **Adam**, achieving classification based on extracted features. The final trained mode has an accuracy rate of 89% and is saved in **Keras format** for deployment in fashion recommendation applications.

On this page, the user chooses the occasion and weather for which they are dressing up.

A screenshot of a web form titled "Outfit Recommendation Form". The form is white with a light blue border and is set against a light purple background. It contains three input fields: a text box for "Body Type" with the value "inverted_triangle", a dropdown menu for "Occasion" with the value "Casual", and another dropdown menu for "Weather" with the value "Spring". At the bottom of the form is a blue button with the text "Get Recommendations".

Outfit Recommendation Form

Body Type:

inverted_triangle

Occasion:

Casual

Weather:

Spring

Get Recommendations

The clothing recommendations are based on a predefined **dictionary of outfit suggestions** categorized by **body type, occasion, and weather**. When a user uploads an image, the **CNN model predicts their body type**. The user then selects the **occasion (e.g., casual, party)** and **weather condition (e.g., summer, winter)**. The system looks up the matching outfit from the predefined dictionary and returns a tailored suggestion that enhances the user's body shape while considering the event and climate.

Outfit Recommendations for inverted_triangle Body Type

A soft, flowy blouse with straight-leg pants.

[Upload another photo](#)