

ESENCA - A Fit Predictor Built for the 21st Century

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Abstract

In the last two decades, the e-commerce industry has increased significantly making shopping easier and more comfortable for users world-wide. Despite the ease of use and the convenience, this growth came together with some inevitable issues, among which we mention the return rate of the purchased items. This is particularly problematic in the case of on-line shops selling apparel, since the users cannot try out the items to see if they fit. Thus, we present our solution for body measurements that comes to the aid of the customer, who can find out their exact measurements, based on which he will be recommended the right size for each piece of clothing. Using the latest developments in Computer Vision and Machine Learning, we created a robust tool which can reliably measure various parts of the body (lengths, circumferences etc) based on two images (front and side). We get results with less than 0.5 cm measuring error in less than 10 seconds processing time.

* <https://esenca.app/>