AI-BIO

Gender recognition, age estimation, ethnicity and emotion recognition

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AI-BIO

AI-BIO is a video analytics application that is capable of detecting faces using a detector based on deep neural networks, and analysing them in order to recognise features for each face that are both static (such as gender, age and ethnicity) and dynamic (such as the emotion at any given moment). Face classification is performed by using an advanced artificial intelligence technique based on multitask learning. AI-Bio also allows to evaluate the time a person stays in front of the camera.

The app requires the use of a camera positioned at a height of about 1.80 metres, so that people's faces are framed frontally.
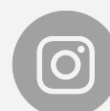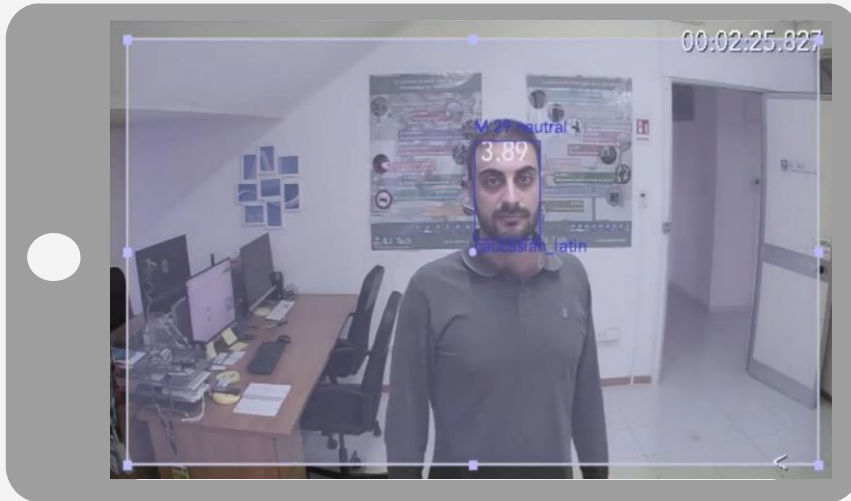
USE CASE
Where can we use AI-BIO?

AI-BIO is the video analytics solution designed to meet the needs of marketers, e.g. in buildings, museums, restaurants, shops, shopping centres, airports and parks, but more generally in all those situations in which it is essential to know not only the number of people crowding your sales area, but also their characteristics, through the identification of gender, age, ethnicity and emotion.

AI-BIO also proves to be a key tool for Digital Signage, as today monitors displaying advertising content are becoming increasingly popular. However, this content is static, in the sense that it does not depend on the specific person who is watching it. AI-BIO-DEEP allows instead to maximise the effectiveness of such advertising campaigns, through the personalisation of the content to be shown on the screen on the basis of the specific person who is looking at the monitor at that moment. In such a scenario, understanding the emotional state of the person while watching the video and evaluating the time spent in front of the monitor can be extremely useful in assessing the effectiveness of that specific advertising content.
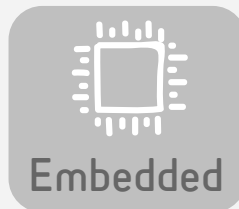
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ARCHITECTURE
Where can we install the app?

Edge   **Embedded**   **Server**

The detailed list of specific compatible platforms can be reached via the link on the right.

INTEGRATION
Where can we notify the events generated by the app?

Events can be sent to external servers using over 20 different mechanisms, which include third-party VMSs, standard protocols (such as HTTP, FTP, MODBUS and MQTT) and also A.I. Tech proprietary protocols, which allow the notification of events to the dashboards of A.I. Tech. More information via the link on the right.