



**TECNOLÓGICO
NACIONAL DE MÉXICO**

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Dataset

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Encontramos el dataset en la página de RoboFlow.

El data-set se llama “Facial Emotion Detection Computer Vision Project” por Stress Detection

<https://universe.roboflow.com/stress-detection-wnra9/facial-emotion-detection-mlrex>

Clasifica las imágenes dentro de las siguientes categorías: irritado, neutral, enojado, disgustado, enojado, feliz, triste y sorprendió. Los cuales son los que buscamos para entrenar a nuestro modelo.

Este data-set ya está preprocesado y etiquetado, por lo tanto, no necesitamos de herramientas para preprocesamiento de imágenes. Cuenta con 6662 imágenes en total, de las cuales 388 son para validación y 97 para pruebas. A su vez a este ya se le aplicaron filtros como blur, rotaciones, cambios de escala, cambios de intensidad de luz y cambios de saturación.

The screenshot shows the RoboFlow project page for "Facial Emotion Detection Computer Vision Project". The page features a sidebar with navigation options like "Back", "Facial Emotion D...", "GENERAL", "Overview", "DATA", "Images", "Dataset", "Analytics", "DEPLOY", "Model", and "API Docs". The main content area displays a grid of six facial images with a "2.5k images" label. Below the images, the project title "Facial Emotion Detection Computer Vision Project" is shown, along with a "Stress Detection" tag and "Updated 2 months ago". The page includes a "0 views 0 downloads" section, a "TAGS" section with "Object Detection", "Model", "yolov11", and "yolov11n", and a "CLASSES (9)" section listing "Irritated", "Neutral", "angry", "disgust", "fear", "happy", "neutral", "sad", and "surprise". On the right, a "METRICS" section shows "mAP@50" at 77.2%, "Precision" at 70.2%, and "Recall" at 69.8%. At the bottom right, there is a "Try This Model" button with a prompt to "Drop an image or browse your device".

Universe Search 500,000+ Open Source Computer Vision Projects...

← Back

2.5k images

Facial Emotion D...
Object Detection

GENERAL

Overview

DATA

Images 2544

Dataset 1

Analytics

DEPLOY

Model 1

</> API Docs

0 views 0 downloads

TAGS

Object Detection Model yolov11 yolov11n

CLASSES (9)

Irritated Neutral angry disgust fear happy neutral sad surprise

0 stars Download Project

Updated 2 months ago

METRICS

mAP@50 77.2% Precision 70.2% Recall 69.8%

Try This Model

Drop an image or [browse your device](#)

6662 Total Images



[View All Images →](#)

Dataset Split

TRAIN SET

93%

6177 Images

VALID SET

6%

388 Images

TEST SET

1%

97 Images

Preprocessing

Auto-Orient: Applied

Resize: Stretch to 640x640

Augmentations

Outputs per training example: 3

Flip: Horizontal, Vertical

Rotation: Between -15° and $+15^\circ$

Hue: Between -25° and $+25^\circ$

Saturation: Between -25% and $+25\%$

Blur: Up to 4.9px

Estas son algunas imágenes del data set, como se puede observar, las imágenes están pre procesadas, con cambios de luz, rotaciones, etc.

