

# ZARA

## *SEARCH*

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# Q Introducción

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# 🔍 Introducción



Tendencia de compra online

Buscar, filtrar y comprar

Base de datos para pronosticar  
ventas



Sistema de clasificación basado  
en Redes Neuronales



Sistemas de Recomendación

```
In [48]: ## *IMPORTACIÓN DE LIBRERIAS*  
from IPython.display import display, HTML  
HTML('<style>.output {flex-direction: row;}</style>')  
from keras.applications.resnet50 import ResNet50  
from keras.preprocessing import image  
from keras.applications.resnet50 import preprocess_input, decode_predictions  
import numpy as np
```



```
model = ResNet50(weights='imagenet')
```

```
img_path = 'JEANS.jpg'
```

```
img = image.load_img(img_path, target_size=(224, 224))
```

```
x = image.img_to_array(img)
```

```
x = np.expand_dims(x, axis=0)
```

```
x = preprocess_input(x)
```

```
preds = model.predict(x)
```

```
print('Predicted:', decode_predictions(preds, top=3)[0])
```

```
Predicted: [('n03594734', 'jean', 0.80945915), ('n02808304', 'bath_towel', 0.05522593), ('n03877472', 'pajama', 0.03028701)]
```



```
model = ResNet50(weights='imagenet')

img_path = 'ABRIGO 2.jpg'
img = image.load_img(img_path, target_size=(224, 224))
x = image.img_to_array(img)
x = np.expand_dims(x, axis=0)
x = preprocess_input(x)

preds = model.predict(x)
print('Predicted:', decode_predictions(preds, top=3)[0])
```

```
Predicted: [('n03404251', 'fur_coat', 0.7052111), ('n04479046', 'trench_coat', 0.12823585), ('n03770439', 'miniskirt', 0.045553934)]
```



```
model = ResNet50(weights='imagenet')

img_path = 'TRENCH.jpg'
img = image.load_img(img_path, target_size=(224, 224))
x = image.img_to_array(img)
x = np.expand_dims(x, axis=0)
x = preprocess_input(x)

preds = model.predict(x)
print('Predicted:', decode_predictions(preds, top=3)[0])
```

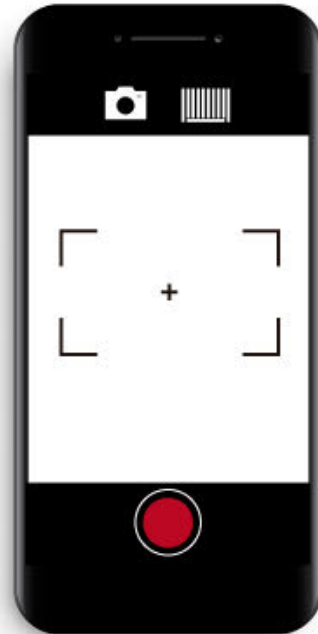
```
Predicted: [('n04479046', 'trench_coat', 0.9753817), ('n04350905', 'suit', 0.013957926), ('n03404251', 'fur_coat', 0.0077237664)]
```





# Metodología

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# Conclusiones y líneas futuras

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Cuadro de mando para diseñadores





Muchas gracias por su atención

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