**Copy of Build Your Own Image Search**

Using AI Object Detection, CDN and ElasticSearchBuild Your Own Image Search Using AI Object Detection, CDN and ElasticSearch

What does this do?

* **Manual Start:** The workflow kicks off when you click “Test workflow,” so you’re in control of when things begin.
* **Set Things Up:** It first sets key variables like the source image URL, which AI model to use (in this case, a Detr-Resnet-50 model via Cloudflare), and the Elasticsearch index for later storage.
* **Download the Image:** It then fetches the image from the given URL—think of it as downloading the picture you want to work with.
* **Run Object Classification:** The image is sent to an AI service that analyzes it to find and classify objects. This service returns details like object labels, confidence scores, and bounding box coordinates.
* **Filter High-Confidence Results:** Only the detected objects with a high confidence score (0.9 or above) are kept for further processing.
* **Crop Out Objects:** For each high-confidence object, the workflow uses the bounding box data to crop that specific part out of the original image.
* **Upload the Cropped Image:** The cropped object is then uploaded to Cloudinary, which provides a secure URL for the image.
* **Index for Search:** Finally, it creates a document in Elasticsearch with information about the cropped image (including its URL, the original source image URL, and the object label) to enable efficient image search later on.
* **Helpful Documentation:** Throughout, sticky notes explain each step, making it easier for beginners to follow what’s happening.