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Aprendizaje Automático-Proyecto Final

```
def buscar_youtube(request):
    videos = []

    if request.method == 'POST':
        search_url = 'https://www.googleapis.com/youtube/v3/search'
        video_url = 'https://www.googleapis.com/youtube/v3/videos'
        search_params = {
            'part': 'snippet',
            'chart': 'mostPopular',
            'q': request.POST.get('search'),
            'key': settings.YOUTUBE_DATA_API_KEY,
            'maxResults': 10,
            'type': 'video'
        }

        r = requests.get(search_url, params=search_params)

        results = r.json()['items']

        video_ids = []
        for result in results:
            video_ids.append(result['id']['videoId'])

        # Seleccionar aleatoriamente tres IDs de video de los 10 obtenidos
        selected_video_ids = random.sample(video_ids, 3)

        video_params = {
            'key': settings.YOUTUBE_DATA_API_KEY,
            'part': 'snippet,contentDetails',
            'id': ','.join(selected_video_ids),
            'maxResults': 10
        }

        r = requests.get(video_url, params=video_params)

        results = r.json()['items']

        for result in results:
            video_data = {
                'title': result['snippet']['title'],
                'id': result['id'],
                'url': f'https://www.youtube.com/watch?v={ result["id"] }',
                'duration': int(parse_duration(result['contentDetails']['duration']).total_
seconds() // 60),
                'thumbnail': result['snippet']['thumbnails']['high']['url']
            }

            videos.append(video_data)
        print(videos)
        context = {
            'videos': videos
        }
        return JsonResponse(context)
```