

# Actividad formativa: GitHub Copilot

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## Paso 1

Una vez iniciada la sesión, creamos un repositorio en GitHub, asignamos como nombre `AI_project`, repositorio publico, habilitamos el README y creamos el repositorio

The screenshot displays the GitHub repository creation process, divided into two main sections: General and Configuration.

**1 General**

- Owner \***: KeoCex (selected from a dropdown).
- Repository name \***: AI\_project (entered in a text field). A green checkmark below the field indicates "AI\_project is available."
- Description**: A text area for the repository description, currently empty. A character count "0 / 350 characters" is shown below the field.

**2 Configuration**

- Choose visibility \***: A dropdown menu set to "Public". Below it, a note says "Choose who can see and commit to this repository".
- Add README**: A toggle switch is turned "On". A note below says "READMEs can be used as longer descriptions. [About READMEs](#)".
- Add .gitignore**: A dropdown menu set to "No .gitignore". A note below says ".gitignore tells git which files not to track. [About ignoring files](#)".
- Add license**: A dropdown menu set to "No license". A note below says "Licenses explain how others can use your code. [About licenses](#)".

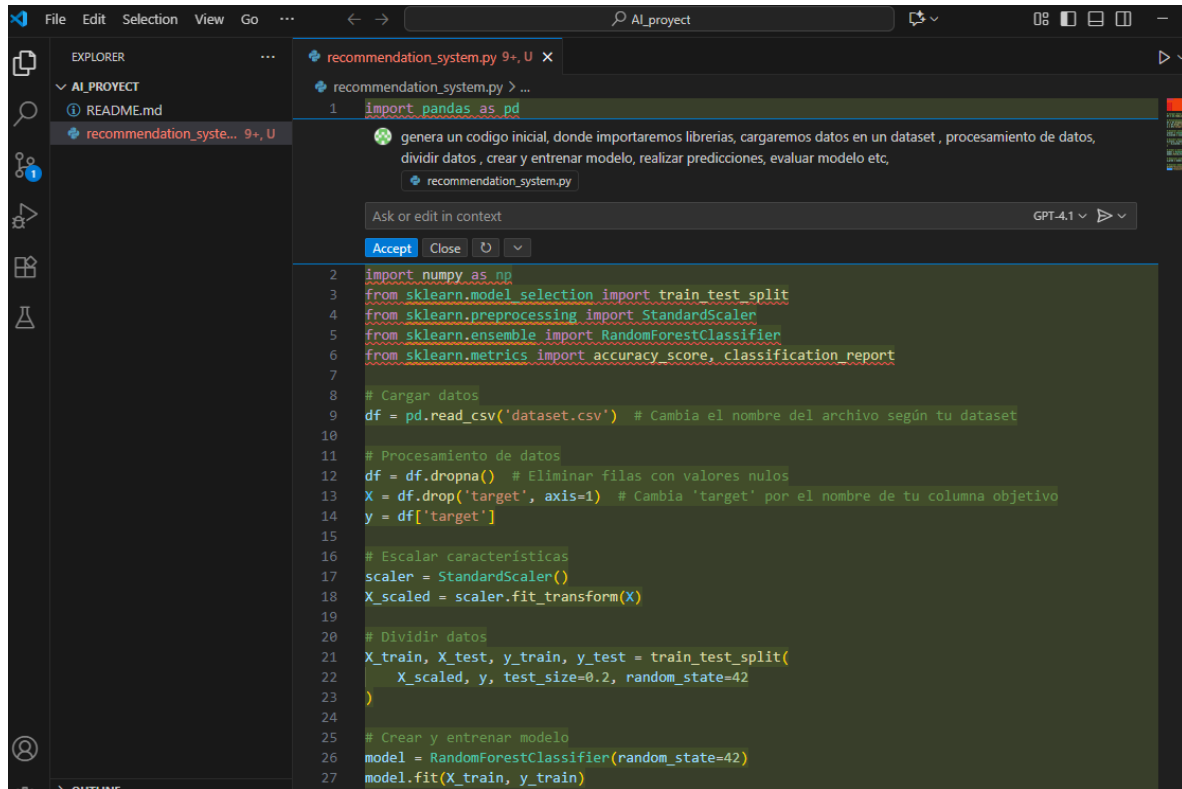
A green "Create repository" button is located at the bottom right of the configuration section.

Clonamos el repositorio de GitHub en VisualStudio Code

[https://github.com/KeoCex/AI\\_project](https://github.com/KeoCex/AI_project)

## Paso 2

creamos un nuevo archivo con nombre `recommendation_system.py`, y solicitamos a la IA que nos genere un código inicial

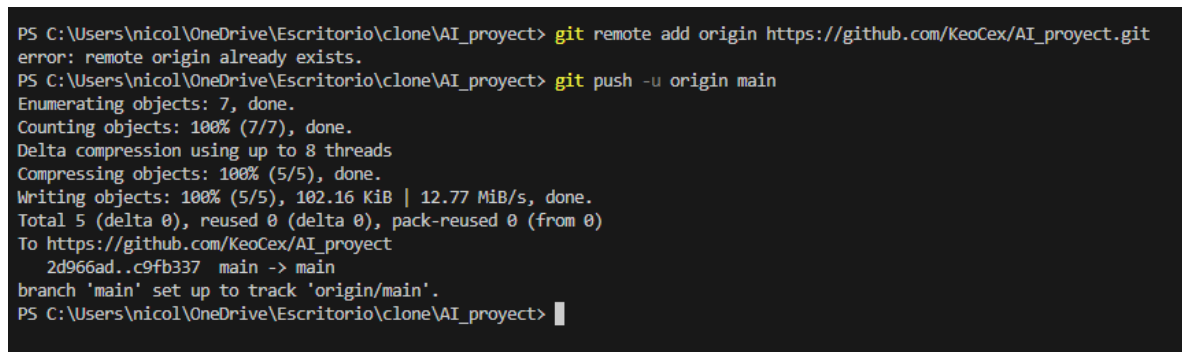


The screenshot shows the Visual Studio Code interface with the Explorer sidebar on the left showing a project named 'AI\_PROJECT' containing 'README.md' and 'recommendation\_system.py'. The main editor window shows the 'recommendation\_system.py' file. An AI chat window is open, displaying a prompt in Spanish: 'genera un código inicial, donde importaremos librerías, cargaremos datos en un dataset, procesamiento de datos, dividir datos, crear y entrenar modelo, realizar predicciones, evaluar modelo etc,'. Below the prompt is a text input field with 'Ask or edit in context' and a dropdown menu set to 'GPT-4.1'. The chat response shows the generated Python code, which includes imports for pandas, numpy, sklearn, and a detailed comment in Spanish explaining each step: loading data, preprocessing, scaling, splitting, and training a Random Forest Classifier.

```
1 import pandas as pd
2
3
4
5
6
7
8 # Cargar datos
9 df = pd.read_csv('dataset.csv') # Cambia el nombre del archivo según tu dataset
10
11 # Procesamiento de datos
12 df = df.dropna() # Eliminar filas con valores nulos
13 X = df.drop('target', axis=1) # Cambia 'target' por el nombre de tu columna objetivo
14 y = df['target']
15
16 # Escalar características
17 scaler = StandardScaler()
18 X_scaled = scaler.fit_transform(X)
19
20 # Dividir datos
21 X_train, X_test, y_train, y_test = train_test_split(
22     X_scaled, y, test_size=0.2, random_state=42
23 )
24
25 # Crear y entrenar modelo
26 model = RandomForestClassifier(random_state=42)
27 model.fit(X_train, y_train)
```

## Paso 3

Se realiza Commit y push. Realizamos los commit de los cambios, conectamos con repositorio local y posteriormente subimos los cambios al repositorio remoto



The screenshot shows a terminal window with the following commands and output:

```
PS C:\Users\nicol\OneDrive\Escritorio\clone\AI_project> git remote add origin https://github.com/KeoCex/AI_project.git
error: remote origin already exists.
PS C:\Users\nicol\OneDrive\Escritorio\clone\AI_project> git push -u origin main
Enumerating objects: 7, done.
Counting objects: 100% (7/7), done.
Delta compression using up to 8 threads
Compressing objects: 100% (5/5), done.
Writing objects: 100% (5/5), 102.16 KiB | 12.77 MiB/s, done.
Total 5 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/KeoCex/AI_project
 2d966ad..c9fb337  main -> main
branch 'main' set up to track 'origin/main'.
PS C:\Users\nicol\OneDrive\Escritorio\clone\AI_project> |
```