

# AI-Powered Twitter Bot using OpenAI and Tweepy

This project is an AI-powered Twitter bot that automatically replies to tweets mentioning a specific Twitter account.

It integrates OpenAI's GPT-3.5 Turbo model for generating intelligent, friendly replies and uses Tweepy to interact with the Twitter API.

## Key Features:

- Reads mentions of your Twitter handle.
- Sends the mention text to OpenAI for an appropriate response.
- Replies directly to the mention with the generated AI message.
- Uses environment variables for storing API keys securely.

## How It Works:

1. Loads Twitter and OpenAI API credentials from a `.env` file using `dotenv`.
2. Authenticates the Twitter bot using Tweepy.
3. Checks for new mentions using the `get_users_mentions` method.
4. For each new mention:
  - Extracts the text of the tweet.
  - Sends the text to OpenAI's GPT-3.5 model for a response.
  - Replies to the tweet with the generated content.
5. If there are no new mentions, the bot notifies that there are none.

## Technologies Used:

- Python

- Tweepy (Twitter API client)
- OpenAI GPT-3.5
- dotenv (for environment variable management)

This bot can be extended to handle direct messages (DMs), auto-reply on hashtags, and perform sentiment analysis.

It is a simple but powerful example of using LLMs in real-world social media automation.