Project Component #2

Tree Donation Tracker

Climate change is probably the biggest threat to humanity in today's day and age. The scariest part is we don't have a good solution to it, and the things we can do to stop it people aren't taking as seriously as they should. The carbon emissions created by burning fossil fuels are the main cause of climate change. Even if you're using electricity, that power was probably generated using fossil fuels. While great strides have been taken in making society greener, it isn't nearly enough to stop climate change or even slow it down to a manageable rate. The best way we have of cleaning the atmosphere of carbon emissions is planting trees and saving already grown forests. Many nonprofit organizations plant trees in deforested areas and rely on donations from the public to fund their expenditures.

My project is a tree planting tracker where whenever you donate to a nonprofit tree planting company, such as the Arbor Day Foundation, it tells you where and what kind of trees were planted with your money. This way, instead of just seeing the money disappear from your bank account and hoping the nonprofit used it in a good way, you'll know exactly how your donation helped the world. People will have much more of a sense that they made a difference if they can see how their donations are being used.

The societal impact this will have is that people will be more inclined to donate and continue donating to tree planting nonprofit organizations. This will in effect cause more trees to be planted and therefore a happier and healthier planet will be the result. We benefit from forests

in a countless number of ways. From cleaning the air to cleaning the water to soaking up runoff water to keep our cities from flooding, to providing habitats for wildlife, and many more. Studies have also shown that communities with more trees have less crime and more relaxed citizens. Trees make both the earth and people happy, so anything that causes more trees to be planted is doing a service to the world.

Required Skills

- Python Programming

- Web Scraping

- Connecting to a website and getting information from it

- Creating a user interface using python

- PyCharm IDE