CLIMATE EDUCATION & GREEN WORKFORCE

Luna González González

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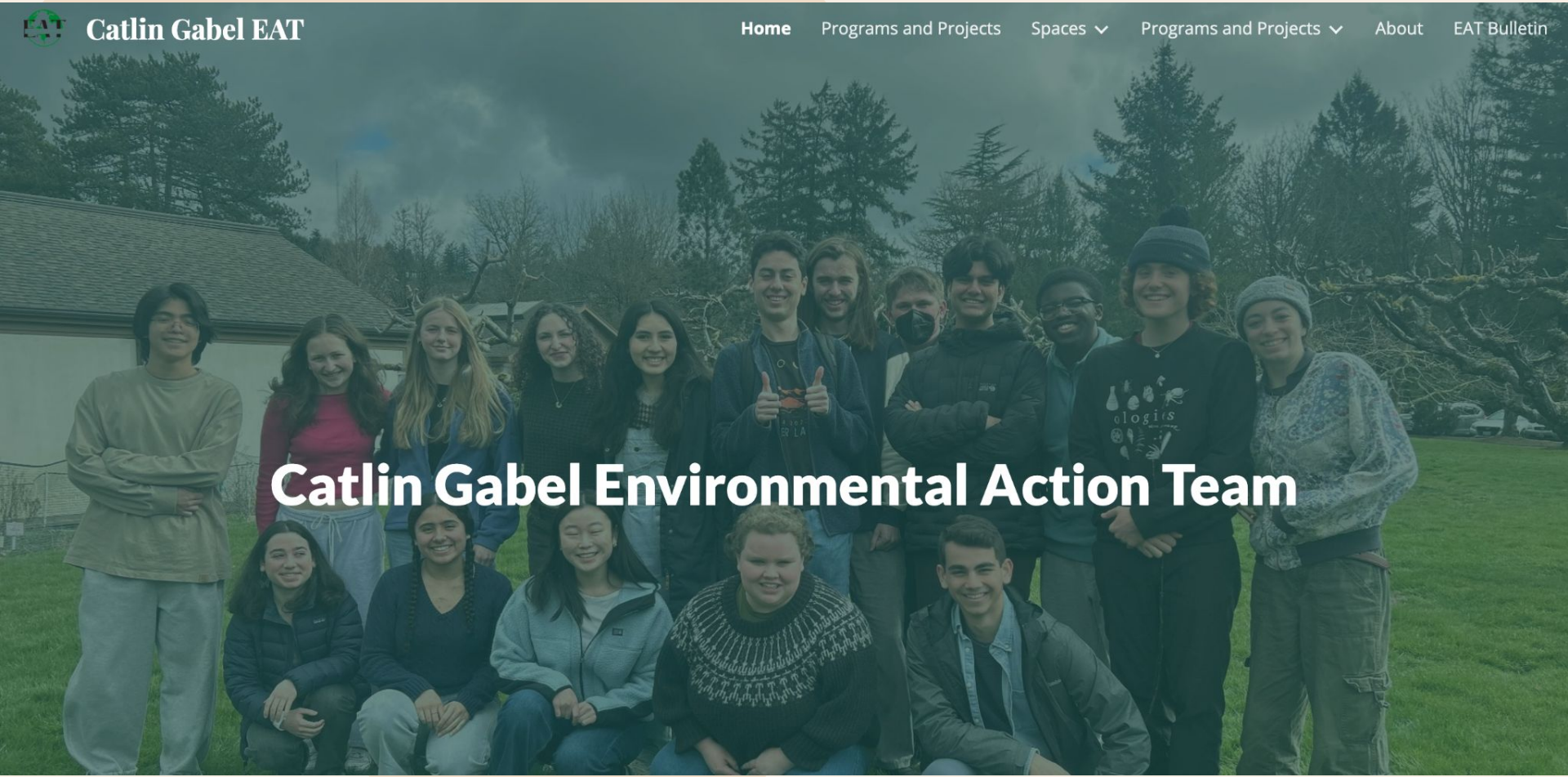
How can you support climate education and help build a green workforce?

Environmental Justice
looks like.....
CLEAN ENERGY
CLEAN AIR
COAL POWER PLANT
CRAWFORD
CLEAN GREEN SPACE
Climate Justice
HELL NO TO HILCO!
#FueraHilco



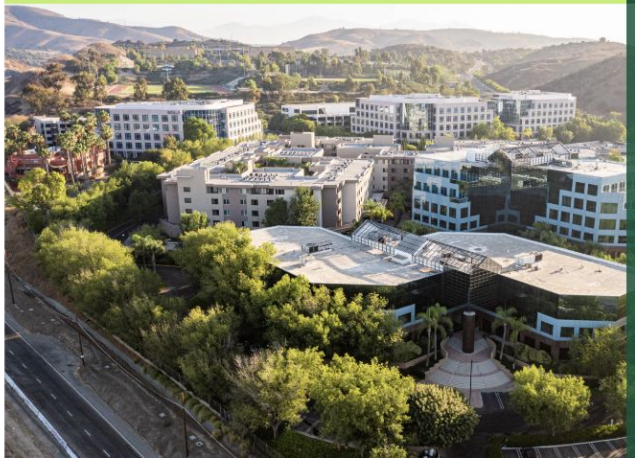
Catlin Gabel Environmental Action Team

SEED HUB

Sustainable, Environmentally-friendly, Educational, and Data-driven Hub

BY

LUNA GONZÁLEZ GONZÁLEZ



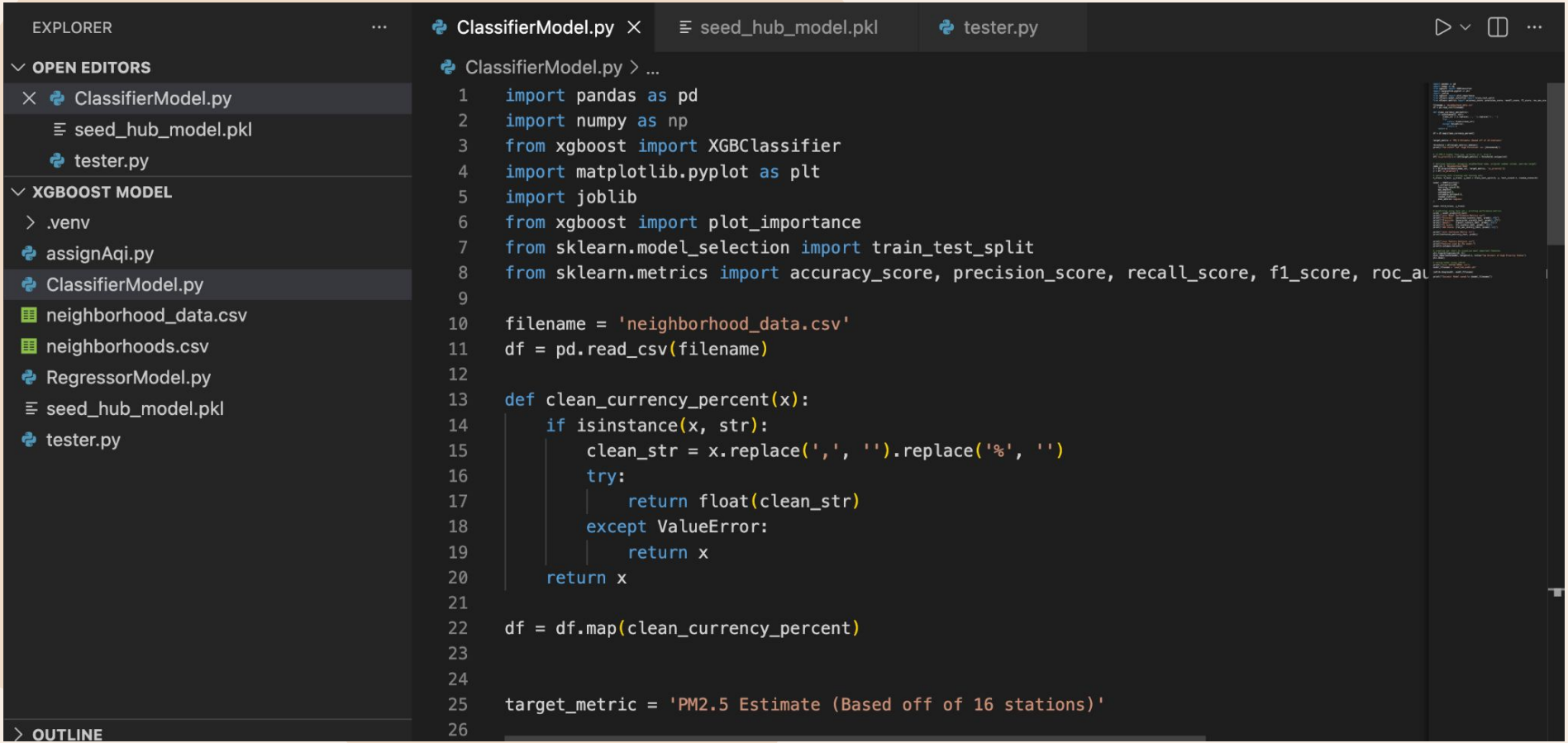
JANUARY 2025

Create **Green Spaces** in Portland to benefit **under-served** communities and teach students about **STEM**

INTRODUCTION

This project seeks to identify under-served communities in Portland who would most benefit from the addition of green spaces (based on tree cover, air quality, and other environmental factors) and restore small ecosystems in these areas. This ecosystem restoration project aims to both improve environmental conditions and create outdoor classrooms to help students engage with STEM as they learn about the climate crisis, biodiversity loss, and the environmental impacts of human development.

PHOTOGRAPH BY IVN NATUUREDUCATIE, NATIONAL GEOGRAPHIC


EXPLORER
OPEN EDITORS
ClassifierModel.py
seed_hub_model.pkl
tester.py
XGBOOST MODEL
.venv
assignAqi.py
ClassifierModel.py
neighborhood_data.csv
neighborhoods.csv
RegressorModel.py
seed_hub_model.pkl
tester.py
OUTLINE
ClassifierModel.py
seed_hub_model.pkl
tester.py
ClassifierModel.py > ...
1 import pandas as pd
2 import numpy as np
3 from xgboost import XGBClassifier
4 import matplotlib.pyplot as plt
5 import joblib
6 from xgboost import plot_importance
7 from sklearn.model_selection import train_test_split
8 from sklearn.metrics import accuracy_score, precision_score, recall_score, f1_score, roc_au
9
10 filename = 'neighborhood_data.csv'
11 df = pd.read_csv(filename)
12
13 def clean_currency_percent(x):
14 if isinstance(x, str):
15 clean_str = x.replace(',', '').replace('%', '')
16 try:
17 return float(clean_str)
18 except ValueError:
19 return x
20 return x
21
22 df = df.map(clean_currency_percent)
23
24
25 target_metric = 'PM2.5 Estimate (Based off of 16 stations)'
26

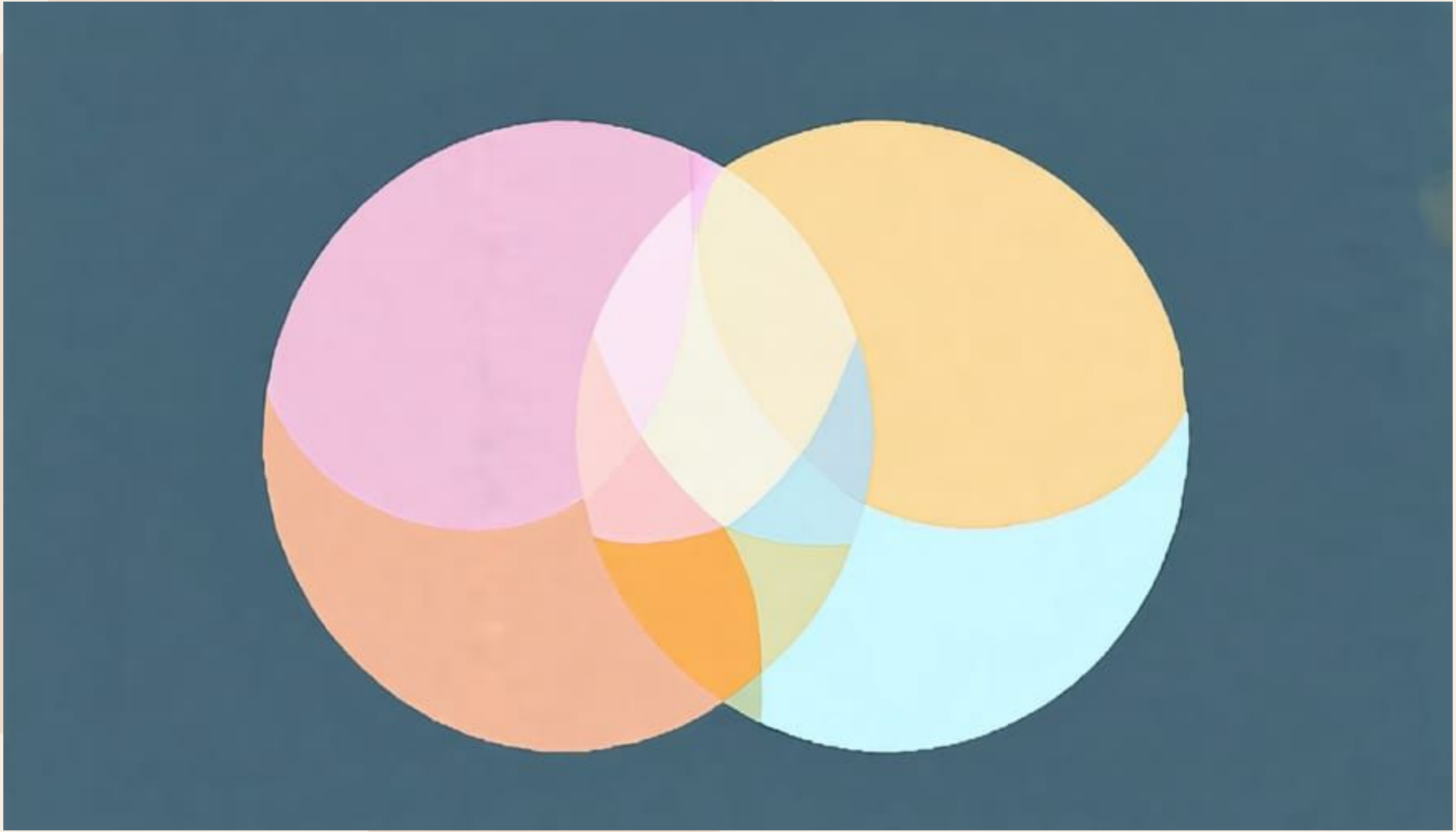
Focus on Youth

A volunteer-run community farm cultivating hope, health, and connection through organic farming.

GREEN
JOBS

Peer Mentors

BARRIERS TO
ENTRY



The Leaders of Now

The climate is changing.
So can we.
JOIN THE COLLECTIVE
www.futureclimatecollective.com
@futureclimatecollective

Bring students together to care for the environment and learn about STEM

- Student-driven initiatives provide students with a sense of ownership and responsibility, building agency
- Education about how STEM can be applied to address environmental challenges inspires students to learn
- Community-centered projects become self-sustaining
- Green spaces improve ecosystem health and contribute to improved health outcomes for community members

Sources

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slidesgo