DRUG OVERDOSE DEATHS IN THE US

CHRISTINA CIMINI | IRONHACK 2024

DATA COLLECTION

01. Monthly Provisional Drug Overdose Death Counts report

02. US Census Data

Poverty, insurance, and educational attainments (high school, associate's, bachelor's, professional degree) rates

03. US Department of Housing

Rates of homelessness

04. Cannabis legalization status

Recreational, medical, and/or decriminalized

05. US Regional Economic Analysis Project

State GDP, adjusted per capita

XGBREGRESSOR MODEL

Features

- State
- Year
- Poverty %
- Uninsurance %
- Homelessness %
- Education % (High school, Associate's, Bachelor's, Master's, Doctorate)
- Cannabis (Full legalization, medical legalization, decriminalization)
- GDP per capita

TABLEAU

HYPOTHESIS TESTING

Significantly correlated

- Education above high school
- Cannabis legalization for recreational use
- Rates of uninsurance
- Rates of poverty

Not significantly correlated

- High school education
- Cannabis decriminalization and legalization for medical use
- GDP per capita
- Rates of homelessness

POLICY IMPLICATIONS

01

Cannabis Legalization

Roll back legalization of cannabis for recreational use (but can uphold decriminalization and legalization for medical purposes)

02

Health Insurance

Increase health insurance coverage by simplifying the enrollment process, targeting special populations, and involving government funds in employer health care

03

Poverty

Implement safeguards against poverty such as an increased minimum wage, paid parental and medical leave, and expanded safety net programs

THANK YOU