import gradio as gr

import pandas as pd

from sklearn.linear\_model import LinearRegression

# Define a function to make predictions

def predict\_strength(cement, slag, ash, water, superplastic, coarseagg, fineagg, age):

data = pd.DataFrame({

"cement": [cement],

"slag": [slag],

"ash": [ash],

"water": [water],

"superplastic": [superplastic],

"coarseagg": [coarseagg],

"fineagg": [fineagg],

"age": [age]

})

prediction = model\_lr.predict(data)[0]

return prediction

# Create a Gradio interface

input\_components = [

gr.inputs.Number(label="Cement"),

gr.inputs.Number(label="Slag"),

gr.inputs.Number(label="Ash"),

gr.inputs.Number(label="Water"),

gr.inputs.Number(label="Superplastic"),

gr.inputs.Number(label="Coarseagg"),

gr.inputs.Number(label="Fineagg"),

gr.inputs.Number(label="Age"),

]

output\_component = gr.outputs.Textbox(label="Predicted Strength")

gr.Interface(predict\_strength, inputs=input\_components, outputs=output\_component, title="Concrete Strength Prediction").launch()