import pandas as pd

import matplotlib.pyplot as plt

# Load the data

df = pd.read\_csv("/mnt/data/flood.csv")

# Define the target and features

target = "FloodProbability"

features = df.drop(columns=[target]).columns

# Set up the subplots

num\_features = len(features)

cols = 3

rows = -(-num\_features // cols) # Ceiling division

plt.figure(figsize=(15, 5 \* rows))

# Plot each feature vs FloodProbability

for i, feature in enumerate(features, 1):

plt.subplot(rows, cols, i)

plt.scatter(df[feature], df[target], alpha=0.6, color='teal')

plt.title(f"{feature} vs {target}")

plt.xlabel(feature)

plt.ylabel("FloodProbability")

plt.grid(True, linestyle='--', alpha=0.6)

plt.tight\_layout()

plt.show()