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import streamlit as st
import numpy as np
import matplotlib.pyplot as plt
from sklearn.preprocessing import PolynomialFeatures
from sklearn.linear_model import LinearRegression
from sklearn.metrics import r2_score

st.set_page_config(layout="wide")
st.title("Polynomial Regression App")

degree = st.slider("Polynomial Degree", 2, 6, 2)
points = st.slider("Number of Points", 5, 50, 10)

X = np.linspace(1, points, points).reshape(-1,1)
Y = X.flatten()**2 + np.random.randn(points)*10

poly = PolynomialFeatures(degree=degree)
Xp = poly.fit_transform(X)

model = LinearRegression()
model.fit(Xp, Y)

Yp = model.predict(Xp)

fig, ax = plt.subplots()
ax.scatter(X, Y)
ax.plot(X, Yp)
st.pyplot(fig)

st.write("R2 Score:", r2_score(Y, Yp))
```