diabetes.py | mainprojectpproto.py | mainproject.py | projectfinal.py

C:\Users\ASUS\Desktop\akira\diabetes.py

```python
import streamlit as st
import pickle

# Load model
with open(r"C:\Users\ASUS\Desktop\akira\project_model.pkl", 'rb') as file:
    Regressor = pickle.load(file)

# Page settings
st.set_page_config(page_title="AQI Predictor 🌫️", page_icon="🌿", layout="centered")

# ---------- Custom CSS for background and font styling ----------
st.markdown("""
    <style>
    /* Background image with gradient overlay */
    .stApp {
        background: linear-gradient(rgba(0,0,0,0.6), rgba(0,80,120,0.7)),
                    url("https://images.unsplash.com/photo-1535905748047-14b8f1e9df4d?auto=format&fit=crop&w=1950&q=80");
        background-size: cover;
        background-position: center;
        color: white;
    }

    /* Title and layout tweaks */
    h1, h3, .stMetric {
        color: #ffffff;
        text-shadow: 2px 2px 4px #000000;
        text-align: center;
    }

    .block-container {
        padding-top: 2rem;
    }

    .css-1r6slb0 {
        background-color: rgba(255, 255, 255, 0.05);
        padding: 2rem;
        border-radius: 10px;
    }

    .stSidebar > div:first-child {
        background-color: rgba(255,255,255,0.1);
        color: white;
    }
    </style>
""", unsafe_allow_html=True)

# ---------- App Title ----------
st.title("🌿 AQI Prediction")
st.markdown("### Enter atmospheric gas levels to estimate Air Quality Index (AQI)")

# ---------- Sidebar Input ----------
st.sidebar.header("📝 Enter Environmental Data")
```

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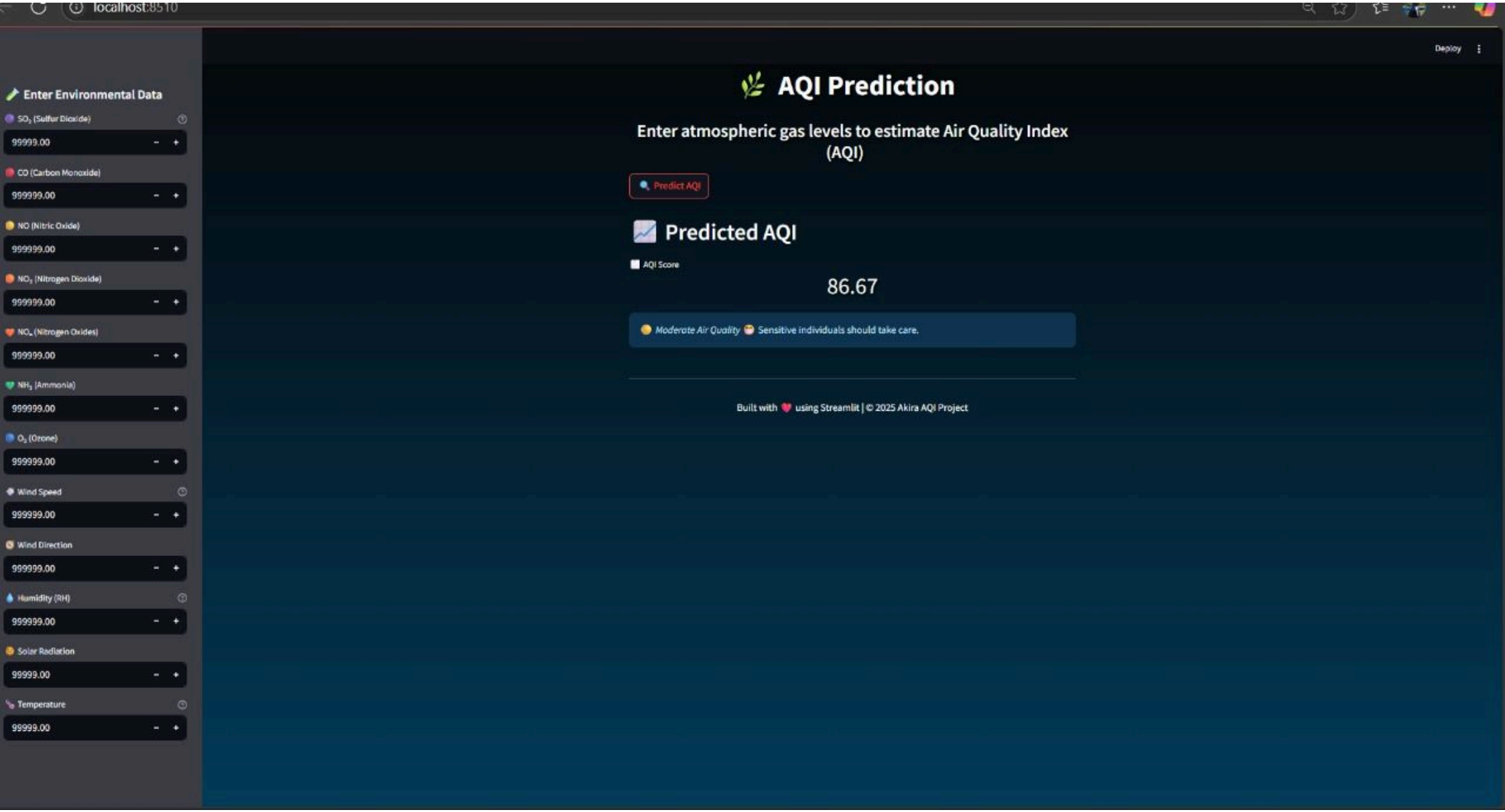
projectfinal.py > ...

```python

# ---------- Sidebar Input ----------
st.sidebar.header("🧪 Enter Environmental Data")
SO2 = st.sidebar.number_input("🟣 SO₂ (Sulfur Dioxide)", min_value=0.0, format="%.2f", help="Concentration in µg/m³")
CO = st.sidebar.number_input("🔴 CO (Carbon Monoxide)", min_value=0.0, format="%.2f")
NO = st.sidebar.number_input("🟡 NO (Nitric Oxide)", min_value=0.0, format="%.2f")
NO2 = st.sidebar.number_input("🟠 NO₂ (Nitrogen Dioxide)", min_value=0.0, format="%.2f")
NOX = st.sidebar.number_input("❤️ NOₓ (Nitrogen Oxides)", min_value=0.0, format="%.2f")
NH3 = st.sidebar.number_input("💚 NH₃ (Ammonia)", min_value=0.0, format="%.2f")
O3 = st.sidebar.number_input("🔵 O₃ (Ozone)", min_value=0.0, format="%.2f")
WS = st.sidebar.number_input("💨 Wind Speed", min_value=0.0, format="%.2f", help="in m/s")
WD = st.sidebar.number_input("🧭 Wind Direction", min_value=0.0, format="%.2f")
RH = st.sidebar.number_input("💧 Humidity (RH)", min_value=0.0, format="%.2f", help="%")
SR = st.sidebar.number_input("☀️ Solar Radiation", min_value=0.0, format="%.2f")
TC = st.sidebar.number_input("🌡️ Temperature", min_value=0.0, format="%.2f", help="°C")

# ---------- Predict Button ----------
if st.button("🔍 Predict AQI"):
    features = [[SO2, CO, NO, NO2, NOX, NH3, O3, WS, WD, RH, SR, TC]]
    prediction = Regressor.predict(features)[0]
    rounded_pred = round(prediction, 2)

    # Display prediction
    st.markdown("## 📈 Predicted AQI")
    st.metric(label="🌫️ AQI Score", value=rounded_pred)

    # Interpretation
    if rounded_pred <= 50:
        st.success("✅ *Good Air Quality* 🌿\nEnjoy your outdoor activities!")
    elif rounded_pred <= 100:
        st.info("🟡 *Moderate Air Quality* 😷\nSensitive individuals should take care.")
    elif rounded_pred <= 150:
        st.warning("⚠️ *Unhealthy for Sensitive Groups* 😷\nLimit prolonged exposure outdoors.")
    elif rounded_pred <= 200:
        st.error("🔴 *Unhealthy* 🚨\nMinimize outdoor activity.")
    else:
        st.error("☠️ *Hazardous* 💀\nStay indoors and use air purifiers if possible.")

# ---------- Footer ----------
st.markdown("---")
st.markdown(
    "<div style='text-align:center; color:white;'>Built with ❤️ using Streamlit | © 2025 Akira AQI Project</div>",
    unsafe_allow_html=True
)

```


localhost:8510
Deploy
Enter Environmental Data
SO_2 (Sulfur Dioxide)
99999.00
CO (Carbon Monoxide)
999999.00
NO (Nitric Oxide)
999999.00
NO_2 (Nitrogen Dioxide)
999999.00
NO_x (Nitrogen Oxides)
999999.00
NH_3 (Ammonia)
999999.00
O_3 (Ozone)
999999.00
Wind Speed
999999.00
Wind Direction
999999.00
Humidity (RH)
999999.00
Solar Radiation
99999.00
Temperature
99999.00
AQI Prediction
Enter atmospheric gas levels to estimate Air Quality Index (AQI)
Predict AQI
Predicted AQI
AQI Score
86.67
Moderate Air Quality Sensitive individuals should take care.
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