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AI Model (scikit-learn) Zoning Predictor (Python)
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from sklearn.ensemble import RandomForestClassifier
from sklearn.model_selection import train_test_split
import pandas as pd
data = pd.read_csv("urban_zoning_data.csv")
X = data[['traffic_density', 'land_value', 'green_space_index']]
y = data['recommended_zone']
X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.2)
model = RandomForestClassifier()
model.fit(X_train, y_train)
print("Accuracy:", model.score(X_test, y_test))
3D Visualization Trigger (JavaScript + Three.js)
import * as THREE from 'three';
const scene = new THREE.Scene();
const camera = new THREE.PerspectiveCamera(75, window.innerWidth/window.innerHeight, 0.1, 1000
const renderer = new THREE.WebGLRenderer();
document.body.appendChild(renderer.domElement);
camera.position.z = 5;
const geometry = new THREE.BoxGeometry();
const material = new THREE.MeshBasicMaterial({ color: 0x0077ff });
const cube = new THREE.Mesh(geometry, material);
scene.add(cube);
function animate() {
   requestAnimationFrame(animate);
   cube.rotation.y += 0.01;
   renderer.render(scene, camera);
}
animate();
IoT Dashboard (Flask + Chart.js)
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@app.route('/dashboard')
def dashboard():
   air_quality = get_sensor_data('air_quality')
   noise = get_sensor_data('noise')
   return render_template("dashboard.html", air_quality=air_quality, noise=noise)
```