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DL 1st
import pandas as pd
from sklearn.model_selection import train_test_split
from sklearn.preprocessing import StandardScaler
from sklearn.metrics import mean_squared_error
import tensorflow as tf
from tensorflow.keras import Sequential
from tensorflow.keras.layers import Dense

# Load the dataset from CSV
df = pd.read_csv('boston_housing.csv')

# Split features and target variable
X = df.drop('MEDV', axis=1)
y = df['MEDV']

# Split data into training and testing sets
X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.2,
random_state=42)

# Scale features
scaler = StandardScaler()
X_train_scaled = scaler.fit_transform(X_train)
X_test_scaled = scaler.transform(X_test)

# Build the model
model = Sequential([
    Dense(64, activation='relu', input_shape=[X_train_scaled.shape[1]]),
    Dense(32, activation='relu'),
    Dense(1)
])

# Compile the model
model.compile(optimizer='adam', loss='mean_squared_error')

# Train the model
model.fit(X_train_scaled, y_train, epochs=100, batch_size=32, verbose=0)

# Evaluate the model
y_pred = model.predict(X_test_scaled)
mse = mean_squared_error(y_test, y_pred)
print("Mean Squared Error:", mse)
```