Decision Trees are a popular supervised learning algorithm used for both classification and regression tasks. They build a tree-like model of decisions and their possible consequences based on features of the data.

Here's a step-by-step guide to implementing Decision Trees using Python and the popular machine learning library, scikit-learn:

Step 1: Import the required libraries

```
from sklearn.tree import DecisionTreeClassifier, DecisionTreeRegressor
from sklearn.model_selection import train_test_split
from sklearn.metrics import accuracy_score, mean_squared_error
```

Step 2: Prepare the dataset

```
# Assuming X and y are NumPy arrays or pandas DataFrames X = \dots # Input features y = \dots # Target variable
```

Step 3: Split the dataset 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)
```

Step 4: Create and train the Decision Tree model

```
model = DecisionTreeClassifier() # For classification tasks
# model = DecisionTreeRegressor() # For regression tasks
model.fit(X_train, y_train)
```

Step 5: Make predictions

```
y_pred = model.predict(X_test)
```

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Step 6: Evaluate the model

```
accuracy = accuracy_score(y_test, y_pred) # For classification tasks
# mse = mean_squared_error(y_test, y_pred) # For regression tasks
```

Step 7: Print the evaluation results

```
 \begin{array}{lll} & print(f"Accuracy: \{accuracy\}") & \# \ For \ classification \ tasks \\ \# \ print(f"Mean \ Squared \ Error: \{mse\}") & \# \ For \ regression \ tasks \\ \end{array}
```

X

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