

AI-BASED DIABETES PREDICTION SYSTEM

PROGRAM:

```
import pandas as pd  
from sklearn.model_selection import  
train_test_split  
from sklearn.linear_model import  
LogisticRegression  
from sklearn.metrics import  
accuracy_score
```

```
# Load your dataset  
data =  
pd.read_csv('diabetes_dataset.csv')
```

```
# Define features and target  
X = data.drop('diabetes_label', axis=1)  
y = data['diabetes_label']
```

```
# Split the 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)
```

```
# Create and train the model
```

```
model = LogisticRegression()  
model.fit(X_train, y_train)
```

```
# Make predictions
```

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

```
# Evaluate the model
```

```
accuracy = accuracy_score(y_test,  
y_pred)
```

```
print("Accuracy:", accuracy)
```