## 📝 Customer Profile

Destination

| No Urgent Place ⌄ |
|---|

Passenger

| Friend(s) ⌄ |
|---|

Weather

| Sunny ⌄ |
|---|

Temperature (°F)

**65**

30                    100

Coupon Type

| Coffee House ⌄ |
|---|

Coupon Expiration

| 1d ⌄ |
|---|

Gender

| Male ⌄ |
|---|

Age

**30**

16                    75

Marital Status

| Single ⌄ |
|---|

Has Children?

◉ 0
○ 1

Education

| Some High School ⌄ |
|---|

Occupation

| Unemployed ⌄ |
|---|

Income Range

| Less than $12500 ⌄ |
|---|

Car Ownership

| None ⌄ |
|---|

Bar Visit Frequency

| never ⌄ |
|---|

CoffeeHouse Visit Frequency

| 4~8 ⌄ |
|---|

# 🎯 Coupon Acceptance Predictor

AI-powered prediction based on customer behavior & profile

🚀 Predict

## 🔍 Prediction Result

✅ The user is **likely to ACCEPT** the coupon.

**Probability of Acceptance:** `0.99`

## 📈 Feature Contribution (SHAP)



$f(x) = 4.388$

| | |
|---|---|
| 1 = Feature 20 | +0.81 |
| 1 = Feature 17 | +0.71 |
| 5 = Feature 84 | +0.55 |
| −0.225 = Feature 1 | −0.44 |
| 1 = Feature 64 | +0.33 |
| 0 = Feature 67 | +0.31 |
| 1 = Feature 82 | −0.27 |
| 0 = Feature 15 | +0.25 |
| 1 = Feature 9 | +0.25 |
| 76 other features | +0.47 |

$E[f(X)] = 1.409$

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🧑‍🔬 Built as part of a Data Science placement project. | ✨ Developed using Streamlit + SHAP