**Logistic Regression**

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AI-generated content may be incorrect.**

**Decision Tree**

**A screenshot of a computer screen

AI-generated content may be incorrect.**

**Decision Tree with params: {'classifier\_\_max\_depth': None, 'classifier\_\_min\_samples\_leaf': 1, 'classifier\_\_min\_samples\_split': 2}**

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AI-generated content may be incorrect.**

**Decision Tree with params: {'classifier\_\_max\_depth': 12, 'classifier\_\_min\_samples\_leaf': 10, 'classifier\_\_min\_samples\_split': 100}**

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AI-generated content may be incorrect.**

**Random Forest**

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AI-generated content may be incorrect.**

**Random Forest + SMOTE**

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AI-generated content may be incorrect.**

**Random Forest + SMOTE + threshold tuning at 0.3**

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**XGBoost**

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**XGBoost with Best params: {'colsample\_bytree: 0.8, 'learning\_rate': 0.1, 'max\_depth': 4, 'n\_estimators': 400, 'subsample': 1.0**

**A screenshot of a computer screen

AI-generated content may be incorrect.**

**XGBoost with Best params: {'colsample\_bytree: 0.8, 'learning\_rate': 0.1, 'max\_depth': 4, 'n\_estimators': 400, 'subsample': 1.0 to catch high sales even with false alarm**

**A screenshot of a computer

AI-generated content may be incorrect.**

**XGBoost with Best params: {'colsample\_bytree: 0.8, 'learning\_rate': 0.1, 'max\_depth': 4, 'n\_estimators': 400, 'subsample': 1.0 with fair balance between High and Low**

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AI-generated content may be incorrect.**