jupyter task 2 Advanced _support Vector Machine Last Checkpoint: 1

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Codveda Technologies Internship For ML Task 2: Support Vector Machine(SVM) fo

Dataset-churn-bigml-80.csv

Objectives:

Train an SVM model on a labeled dataset. Use different kernels (linear, RBF) and c precision, recall, and AUC. Tools: Python, scikit-learn, pandas, matplotlib Descripti

[1]:
```
#python libraries
import numpy as np
import pandas as pd
import seaborn as sns
import matplotlib.pyplot as plt
from sklearn.model_selection import train_test_split
from sklearn.preprocessing import StandardScaler, LabelEncoder
from sklearn.svm import SVC
from sklearn.metrics import accuracy_score, precision_score, recall_sc
from sklearn.metrics import RocCurveDisplay
from mlxtend.plotting import plot_decision_regions
import warnings
warnings.filterwarnings('ignore')
```

[2]:
```
df=pd.read_csv(r"C:\Users\DELL\Downloads\Churn Prdiction Data-2025082
```

[3]:
```
df
```

[3]:

	State	Account length	Area code	International plan	Voice mail plan	Number vmail messages	Total day minutes	Total day calls
0	KS	128	415	No	Yes	25	265.1	110