

## SOURCE CODE

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import tkinter as tk
from tkinter import filedialog
import matplotlib.pyplot as plt
import pandas as pd
from sklearn.metrics import classification_report,
confusion_matrix, accuracy_score
from sklearn.svm import SVC

class Window(tk.Frame):
    def __init__(self, master = None):
        tk.Frame.__init__(self, master)
        self.master.title("SVM")
        self.pack(fill = 'both', expand = 1)

        self.filepath = tk.StringVar()

        browseButton = tk.Button(self, text = 'Browse',
                                command = self.first_browser)
        browseButton.place(x=100, y =20)

        tableButton = tk.Button(self, text='Lakukan
Klasifikasi SVM', command=self.show_grafik)
        tableButton.place(x=60, y=60)

        filepathText = tk.Entry(self, textvariable =
self.filepath)
        filepathText.pack()

    def close_window(self):
        form.destroy()
```

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def show_file_browser(self):
    self.filename = filedialog.askopenfilename()
    return self.filename

def first_browser(self):
    file = self.show_file_browser()
    self.filepath.set(file)

def show_grafik(self):

    #grafik + soal
    bankdata = pd.read_csv(self.filepath.get())

    y_tes = bankdata['nilai']
    costx = bankdata['causeTx']

    bankdata_latih = pd.read_csv("D:\LA
Jaringan\data/datalatih.csv")
    y_train=bankdata_latih['nilai']

    svclassifier = SVC(kernel='linear')
    svclassifier.fit(bankdata_latih, y_train)
    y_pred = svclassifier.predict(bankdata)
    print("Akurasi : ")
    print(accuracy_score(y_tes, y_pred))
    print("Confusion Matrix : ")
    print(confusion_matrix(y_tes, y_pred))
    print("Klasifikasi Report : ")
    print(classification_report(y_tes, y_pred))
    print(y_pred)

    x=[]
    y=[]
    index=1;

```

```
        for i in costx :
            y.append(i)
            x.append(index)
            index+=1
        plt.plot(x, y)
        plt.xlabel('jumlah')
        plt.ylabel('causetx')
        plt.title('Grafik Serangan causetx')
        plt.grid(True)
        plt.show()

form = tk.Tk()
form.geometry("250x250")
form.resizable(0, 0)

app = Window(form)

form.mainloop()
```

