

```
(base) C:\Users\priya>streamlit run "C:\Users\priya\OneDrive\Desktop\MINI PROJECT\Main Project\Main Project\multiple dis  
ease pred.py"
```

You can now view your Streamlit app in your browser.

Local URL: <http://localhost:8501>

Network URL: <http://192.168.1.37:8501>

```
D:\ANACONDA\Lib\site-packages\sklearn\base.py:347: InconsistentVersionWarning: Trying to unpickle estimator LogisticRegr  
ession from version 1.0.2 when using version 1.3.0. This might lead to breaking code or invalid results. Use at your own  
risk. For more info please refer to:
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https://scikit-learn.org/stable/model\_persistence.html#security-maintainability-limitations
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warnings.warn(
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D:\ANACONDA\Lib\site-packages\sklearn\base.py:464: UserWarning: X does not have valid feature names, but SVC was fitted  
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Spyder (Python 3.11)

File Edit Search Source Run Debug Consoles Projects Tools View Help

C:\Users\priya\spyder-py3\temp.py

```
1 import pickle
2 import streamlit as st
3 from streamlit_option_menu import option_menu
4
5
6 # loading the saved models
7
8 diabetes_model = pickle.load(open('C:/Users/priya/OneDrive/Desktop/MINI PROJECT/Main Project/Main Project/diabetes_model.sav', 'rb'))
9
10 heart_disease_model = pickle.load(open('C:/Users/priya/OneDrive/Desktop/MINI PROJECT/Main Project/Main Project/heart_disease_model.sav', 'rb'))
11
12 parkinsons_model = pickle.load(open('C:/Users/priya/OneDrive/Desktop/MINI PROJECT/Main Project/Main Project/parkinsons_model.sav', 'rb'))
13
14
15
16 # sidebar for navigation
17 with st.sidebar:
18
19     selected = option_menu('Multiple Disease Prediction System',
20
21                             ['Diabetes Prediction',
22                              'Heart Disease Prediction',
23                              'Parkinsons Prediction'],
24                             icons=['activity', 'heart', 'person'],
25                             default_index=0)
26
27
28 # Diabetes Prediction Page
29 if (selected == 'Diabetes Prediction'):
30
31     # page title
32     st.title('Diabetes Prediction using ML')
33
34
35     # getting the input data from the user
36     col1, col2, col3 = st.columns(3)
37
38
39     with col1:
40         Glucose = st.number_input('Glucose Level')
41
42     with col2:
43         BloodPressure = st.number_input('Blood Pressure value')
44
45     with col3:
46         SkinThickness = st.number_input('Skin Thickness value')
47
48     with col1:
49         Insulin = st.number_input('Insulin Level')
50
51     with col2:
52         BMI = st.number_input('BMI value')
53
54     with col3:
55         DiabetesPedigreeFunction = st.number_input('Diabetes Pedigree Function value')
```

Usage

Here you can get help of any object by pressing Ctrl+I in front of it, either on the Editor or the Console.

Help can also be shown automatically after writing a left parenthesis next to an object. You can activate this behavior in *Preferences > Help*.

[New to Spyder? Read our tutorial](#)

Help Variable Explorer Plots Files

Console 1/A X

Python 3.11.5 | packaged by Anaconda, Inc. | (main, Sep 11 2023, 13:26:23) [MSC v.1916 64 bit (AMD64)]
Type "copyright", "credits" or "license()" for more information.

IPython 8.15.0 -- An enhanced Interactive Python.

In [1]:

Python Console History

conda (Python 3.11.5) Completions: conda LSP: Python Line 74, Col 1 ASCII CRLF R/W Mem 86%

Spyder (Python 3.11)

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C:\Users\priya\spyder-py3\temp.py

temp.py x

```
55 DiabetesPedigreeFunction = st.number_input('Diabetes Pedigree Function value')
56
57 with col1:
58     Age = st.number_input('Age of the Person')
59
60 # code for Prediction
61 diab_diagnosis = ''
62
63 # creating a button for Prediction
64
65 if st.button('Diabetes Test Result'):
66     diab_prediction = diabetes_model.predict([[Glucose, BloodPressure, SkinThickness, Insulin, BMI, DiabetesPedigreeFunction, Age]])
67
68     if (diab_prediction[0] == 1):
69         diab_diagnosis = 'The person is diabetic'
70     else:
71         diab_diagnosis = 'The person is not diabetic'
72
73
74 st.success(diab_diagnosis)
75
76
77
78
79 # Heart Disease Prediction Page
80 if (selected == 'Heart Disease Prediction'):
81
82     # page title
83     st.title('Heart Disease Prediction using ML')
84
85     col1, col2, col3 = st.columns(3)
86
87     with col1:
88         age = st.number_input('Age')
89
90     with col2:
91         sex = st.number_input('Male/Female')
92
93     with col3:
94         cp = st.number_input('Chest Pain types')
95
96     with col1:
97         trestbps = st.number_input('Resting Blood Pressure')
98
99     with col2:
100         chol = st.number_input('Serum Cholesterol in mg/dL')
101
102     with col3:
103         fbs = st.number_input('Fasting Blood Sugar > 120 mg/dL')
104
105     with col1:
106         restecg = st.number_input('Resting Electrocardiographic results')
107
108     with col2:
109         thalach = st.number_input('Maximum Heart Rate achieved')
110
```

C:\Users\priya

Source Console Object

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Spyder (Python 3.11)

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C:\Users\priya\spyder-py3\temp.py

```
109 thalach = st.number_input('Maximum Heart Rate achieved')
110
111 with col3:
112     exang = st.number_input('Exercise Induced Angina')
113
114 with col1:
115     oldpeak = st.number_input('ST depression induced by exercise')
116
117 with col2:
118     slope = st.number_input('Slope of the peak exercise ST segment')
119
120 with col3:
121     ca = st.number_input('Major vessels colored by flourosopy')
122
123 with col1:
124     thal = st.number_input('thal: 0 = normal; 1 = fixed defect; 2 = reversable defect')
125
126
127
128
129 # code for Prediction
130 heart_diagnosis = ''
131
132 # creating a button for Prediction
133
134 if st.button('Heart Disease Test Result'):
135     heart_prediction = heart_disease_model.predict([[age, sex, cp, trestbps, chol, fbs, restecg, thalach, exang, oldpeak, slope, ca, thal]])
136
137     if (heart_prediction[0] == 1):
138         heart_diagnosis = 'The person is having heart disease'
139     else:
140         heart_diagnosis = 'The person does not have any heart disease'
141
142 st.success(heart_diagnosis)
143
144
145
146
147 # Parkinson's Prediction Page
148 if (selected == "Parkinsons Prediction"):
149
150     # page title
151     st.title("Parkinson's Disease Prediction using ML")
152
153     col1, col2, col3, col4, col5 = st.columns(5)
154
155     with col1:
156         fo = st.number_input('NDVP:Fo(Hz)')
157
158     with col2:
159         fhi = st.number_input('NDVP:Fhi(Hz)')
160
161     with col3:
162         flo = st.number_input('NDVP:FLo(Hz)')
163
164     # ...
```

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Spyder (Python 3.11)

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C:\Users\priya\spyder-py3\temp.py

temp.py x

```
163
164     with col4:
165         jitter_percent = st.number_input('MDVP:Jitter(%)')
166
167     with col5:
168         jitter_Abs = st.number_input('MDVP:Jitter(Abs)')
169
170     with col1:
171         RAP = st.number_input('MDVP:RAP')
172
173     with col2:
174         PPQ = st.number_input('MDVP:PPQ')
175
176     with col3:
177         DDP = st.number_input('Jitter:DDP')
178
179     with col4:
180         Shimmer = st.number_input('MDVP:Shimmer')
181
182     with col5:
183         Shimmer_dB = st.number_input('MDVP:Shimmer(dB)')
184
185     with col1:
186         APQ3 = st.number_input('Shimmer:APQ3')
187
188     with col2:
189         APQ5 = st.number_input('Shimmer:APQ5')
190
191     with col3:
192         APQ = st.number_input('MDVP:APQ')
193
194     with col4:
195         DDA = st.number_input('Shimmer:DDA')
196
197     with col5:
198         HNR = st.number_input('HNR')
199
200     with col1:
201         HNR = st.number_input('HNR')
202
203     with col2:
204         RPDE = st.number_input('RPDE')
205
206     with col3:
207         DFA = st.number_input('DFA')
208
209     with col4:
210         spread1 = st.number_input('spread1')
211
212     with col5:
213         spread2 = st.number_input('spread2')
214
215     with col1:
216         D2 = st.number_input('D2')
217
218     with col2:
```

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Spyder (Python 3.11)

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C:\Users\priya\spyder-py3\temp.py

```
185 with col1:
186     APQ3 = st.number_input('Shimmer:APQ3')
187
188 with col2:
189     APQ5 = st.number_input('Shimmer:APQ5')
190
191 with col3:
192     APQ = st.number_input('NDVP:APQ')
193
194 with col4:
195     DDA = st.number_input('Shimmer:DDA')
196
197 with col5:
198     NHR = st.number_input('NHR')
199
200 with col1:
201     HNR = st.number_input('HNR')
202
203 with col2:
204     RPDE = st.number_input('RPDE')
205
206 with col3:
207     DFA = st.number_input('DFA')
208
209 with col4:
210     spread1 = st.number_input('spread1')
211
212 with col5:
213     spread2 = st.number_input('spread2')
214
215 with col1:
216     D2 = st.number_input('D2')
217
218 with col2:
219     PPE = st.number_input('PPE')
220
221
222
223 # code for Prediction
224 parkinsons_diagnosis = ''
225
226 # creating a button for Prediction
227 if st.button("Parkinson's Test Result"):
228     parkinsons_prediction = parkinsons_model.predict([[fo, fhi, flo, Jitter_percent, Jitter_Abs, RAP, PPQ,DDP,Shimmer,Shimmer_dB,APQ3,APQ5,AI
229
230     if (parkinsons_prediction[0] == 1):
231         parkinsons_diagnosis = "The person has Parkinson's disease"
232     else:
233         parkinsons_diagnosis = "The person does not have Parkinson's disease"
234
235 st.success(parkinsons_diagnosis)
236
237
238
```

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In [1]:

Snipping Tool

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conda (Python 3.11.5) Completions: conda Editors: Python DPE / N, Col 1 ASIDE CREF FOW Mem: 68%