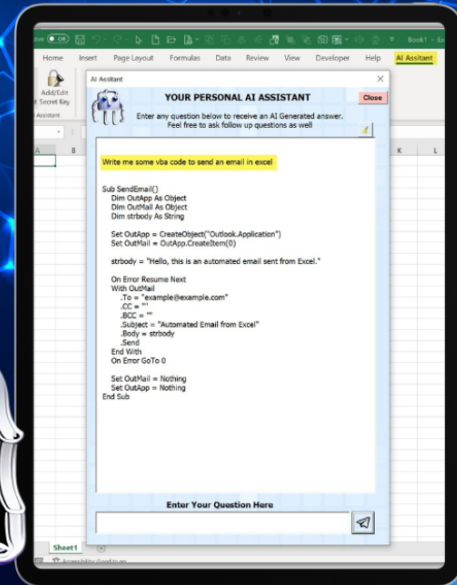


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*by: Randy Austin*

# ABOUT THE AUTHOR

A two-time Microsoft MVP & lifetime Excel enthusiast, Randy Austin founded Excel For Freelancers in 2017. Excel For Freelancers quickly became the most prominent resource Excel for developers to learn how to turn their passion for Excel into profits by building & selling their own excel-based applications for passive & recurring income.

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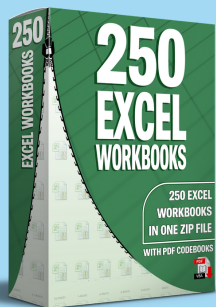
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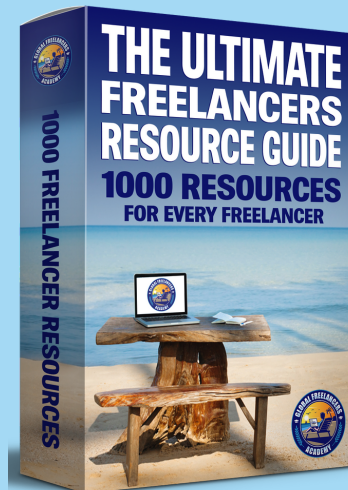
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1 Option Explicit

2

3 Private Sub Worksheet\_SelectionChange(ByVal Target As Range)

4 End Sub

6

7

8

1  
2

Option Explicit

```
1 Option Explicit
2
3 Private Sub CancelBtn_Click()
4     AddSecKey.Hide
5 End Sub
6
7
8 Private Sub SaveBtn_Click()
9     AIAssistant_SaveKey 'Run Macro To Save Key
10 End Sub
11
```



```
1 Option Explicit
2
3 Private Sub ClearBtn_Click()
4     AIAssistForm.Response.Value = ""
5 End Sub
6
7 Private Sub CloseBtn_Click()
8     AIAssistForm.Hide
9 End Sub
10
11 Private Sub Label3_Click()
12
13 End Sub
14
15 Private Sub RequestBtn_Click()
16     GenerateResponse
17 End Sub
```

1 Option Explicit

```

2
3 Sub AIAssistant_AddSecKey(control As IRibbonControl)
4   Dim SecretKey As String, LastRow As Long, ModelRow As Long, TempRow As Long
5   With AddSecKey
6     SecretKey = GetSetting("ChatGPTAddin", "Settings", "APICode" )
7     If SecretKey <> "" Then .SecKey.Value = SecretKey 'Add Existing Secret Key from
      Registry
8
9     'Add Models
10    LastRow = Sheet1.Range("B99999" ).End(xlUp).Row 'Last Model Row
11    .Modellist.Clear
12    For ModelRow = 2 To LastRow
13      Call .Modellist.AddItem(Sheet1.Range("B" & ModelRow).Value, ModelRow - 2)
14    Next ModelRow
15
16    'Add Temperatures
17    LastRow = Sheet1.Range("A99999" ).End(xlUp).Row 'Last Temp Row
18    .TempList.Clear
19    For TempRow = 2 To LastRow
20      Call .TempList.AddItem(Sheet1.Range("A" & TempRow).Value, TempRow - 2)
21    Next TempRow
22    If GetSetting("ChatGPTAddin", "Settings", "Temperature" ) <> "" Then .TempList
      .Value = GetSetting("ChatGPTAddin", "Settings", "Temperature" )
23    If GetSetting("ChatGPTAddin", "Settings", "Model" ) <> "" Then .Modellist.
      Value = GetSetting("ChatGPTAddin", "Settings", "Model" )
24    AddSecKey.Show
25  End With
26
27 End Sub

```

```

28
29
30 Public Sub AIAssistant_Launch(control As IRibbonControl)
31   AIAssistForm.GenResplbl.Visible = False
32   AIAssistForm.Show 'Show Assistant Form
33 End Sub

```

```

34 Sub AIAssistant_SaveKey()
35   If AddSecKey.SecKey.Value = Empty Then
36     MsgBox "Please make sure to add a secret key before saving"
37     Exit Sub
38   End If
39   AddSecKey.Hide 'Hide Secret Key form
40   #If Mac Then
41     If AIAssistForm.Visible = False Then AIAssistForm.Show 'Show Form If Hidden
42     SaveSetting "ChatGPTAddin", "Settings", "APICode", AddSecKey.SecKey.Value 'Save
      existing Key to Registry
43     SaveSetting "ChatGPTAddin", "Settings", "Model", AddSecKey.Modellist.Value 'Set
      Model
44     SaveSetting "ChatGPTAddin", "Settings", "Temperature", AddSecKey.TempList.Value
      'Temperature Value
45   #Else 'PC
46     If AIAssistForm.Visible = False Then AIAssistForm.Show 'Show Form If Hidden
47     SaveSetting "ChatGPTAddin", "Settings", "APICode", AddSecKey.SecKey.Value 'Save
      existing Key to Registry
48     SaveSetting "ChatGPTAddin", "Settings", "Model", AddSecKey.Modellist.Value 'Set
      Model
49     SaveSetting "ChatGPTAddin", "Settings", "Temperature", AddSecKey.TempList.Value
      'Temperature Value
50   #End If
51 End Sub
52

```

```

53
54 Sub GenerateResponse()
55     Dim oXMLHTTP As Object
56     Dim AIResp As String, AIBody As String, Prompt As String, Response As String,
57     SecretKey As String, ParsedAnswer As String, Context As String
58     Dim Temp As String, Model As String
59     SecretKey_Check 'Run Macro To Check Open AI API Key
60     SecretKey = GetSetting("ChatGPTAddin", "Settings", "APICode") 'Get API Key from
61     registry
62     With AIAssistForm
63         If .Prompt.Value = Empty Then
64             MsgBox "Please make sure to enter a prompt/request"
65             Exit Sub
66         End If
67         Model = GetSetting("ChatGPTAddin", "Settings", "Model") 'Get Temp from
68         registry
69         Temp = GetSetting("ChatGPTAddin", "Settings", "Temperature") 'Get Temp from
70         registry
71         If Model = "" Then Model = "text-davinci-003" 'Set Default Model
72         If Temp = "" Then Temp = "0.4" 'Set Default Temp
73         .GenRespLbl.Visible = True
74         DoEvents
75         Context = Replace(Replace(.Response.Value, Chr(34), "\" & Chr(34)), vbNewLine,
76         "\" & Chr(34) & "\" & Chr(34)) 'Previous prompts & responses as contexts
77         Prompt = Replace(Replace(.Prompt.Value, Chr(34), "\" & Chr(34)), vbNewLine,
78         "\" & Chr(34)) 'Prompt Question
79         Set oXMLHTTP = CreateObject("MSXML2.ServerXMLHTTP")
80         oXMLHTTP.Open "POST", "https://api.openai.com/v1/completions", False 'Set Open
81         Posts For Text
82         AIBody = "{" & "model" & ":" & " " & Model & " ", "prompt" & ":" & " " & Context &
83         Prompt & " ", "temperature" & ":" & " " & Temp & " ", "max_tokens" & ":" & " 3500}"
84         'Request Body For Text Response
85         oXMLHTTP.setRequestHeader "Content-Type", "application/json" 'Set Header Type
86         oXMLHTTP.setRequestHeader "Authorization", "Bearer " & SecretKey 'Set Header
87         Authorization
88         Debug.Print AIBody
89         oXMLHTTP.Send AIBody
90         Response = oXMLHTTP.responseText 'Extract Response
91         If InStr(Response, "Incorrect API key provided") > 0 Then
92             MsgBox "Incorrect API key provided. You can find your API key at " & vbCrLf &
93             "https://platform.openai.com/account/api-keys."
94             Exit Sub
95         End If
96         If InStr(Response, "maximum context length") > 0 Then
97             MsgBox "You have reached the maximum content length. Please clear the history
98             above to move forward"
99             Exit Sub
100        End If
101        ParsedAnswer = Right(Response, Len(Response) - InStrRev(Response, "{" & Chr(34)
102        & "text" & Chr(34) & ":" & Chr(34)) - 9)
103        ParsedAnswer = Left(ParsedAnswer, InStrRev(ParsedAnswer, Chr(34) & "," & Chr(34)
104        & "index" ) - 1)
105        ParsedAnswer = Replace(Replace(ParsedAnswer, "\n", vbCrLf), "\" & Chr(34),
106        Chr(34))
107        .Response.Value = .Response.Value & vbCrLf & vbCrLf & Prompt & vbCrLf &
108        ParsedAnswer
109        .Prompt.Value = "" 'Clear Prompt
110        .GenRespLbl.Visible = False
111    End With
112 End Sub
113

```

```
98  
99  
100 Sub SecretKey_Check()  
101   If GetSetting("ChatGPTAddin" , "Settings" , "APICode" ) = "" Then  
102     MsgBox "Please make sure to add in your OpenAI Secret Key"  
103     AddSecKey.Show  
104     End  
105   End If  
106 End Sub
```

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# Thank You!

This source code was created and made available to help you gain a better understanding of how VBA is used to create amazing Excel-based applications.

Thank you so much for your continued shares, likes and support. It really helps.



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