# Module 9: Using ChatGPT with Excel

# What is ChatGPT?

**ChatGPT** is an Al assistant developed by OpenAl. It can understand natural language and help you with:

- Solving Excel formulas
- Writing Macros (VBA code)
- II Explaining functions or Excel errors
- E Learning Excel step-by-step

# How to Use ChatGPT for Excel

- ♦ Step-by-step:
- 1. Go to: https://chat.openai.com
- 2. Login or Sign up
- 3. Start typing your question or task
  - ├── Write a clear and detailed prompt explaining what you need.

## **6** Examples of Using ChatGPT in Excel

**★** Example 1: You Don't Know the Formula

## 12 Dataset:

Name	English	Maths
Α	85	90

## Prompt:

"I have marks in columns B and C. I want to calculate the average marks in column D. What formula should I use?"

ChatGPT will respond with:

=AVERAGE(B2, C2)

#### ★ Example 2: Conditional Formula

Prompt:

"I want to assign grades in Excel: 'A' if marks > 90, 'B' if > 75, otherwise 'C'. What's the formula?"

ChatGPT will provide:

=IF(A2>90,"A",IF(A2>75,"B","C"))

## ★ Example 3: Lookup Function Help

Prompt:

"In Sheet1, I have Employee IDs in column A and Departments in column B. In Sheet2, I want to look up the department by ID. Which formula should I use?"

ChatGPT will provide:

=VLOOKUP(A2, Sheet1!A:B, 2, FALSE)

You can also ask:

- "Difference between VLOOKUP and XLOOKUP?"
- "How do I use INDEX and MATCH together?"

## Macros and ChatGPT

#### What is a Macro?

A macro is a recorded or coded set of steps that automates tasks in Excel.

You'll learn full details in Module 10.

## How ChatGPT Helps with Macros

You can ask ChatGPT to:

- Write custom macro code (VBA)
- · Explain what each line of code does
- · Help with macro errors or editing code
- · Add buttons to run macros

## 

#### Example 1: Highlight Scores Above 90

#### Prompt:

"Write a macro to highlight all numbers above 90 in yellow in the selected cells."

#### ChatGPT responds with:

vba

CopyEdit

Sub HighlightTopScores()

Dim cell As Range

For Each cell In Selection

If IsNumeric(cell.Value) And cell.Value > 90 Then cell.Interior.Color = RGB(255, 255, 0)

End If

Next cell

End Sub

✓ Use: Select your data, then run this macro to highlight cells.

#### Example 2: Save Sheet1 as a PDF

#### **o** Objective:

Automatically save **Sheet1** as a **PDF** in the same folder as your Excel file using a macro.

# Step-by-Step: Using VBA to Create This Macro

## Step 1: Open the Developer Tab

If not visible:

- 1. Right-click on the ribbon → Click Customise the Ribbon
- 2. On the right pane, check "Developer" → Click OK

#### Step 2: Open the VBA Editor

- 1. Click on the **Developer tab**
- 2. Click Visual Basic

(Or press Alt + F11)

#### Step 3: Insert a New Module

- 1. In the VBA window, go to Insert → Module
- 2. A blank code window will appear

#### Step 4: Paste the VBA Code

Prompt:

"Write a macro to save Sheet1 as a PDF in the same folder as the Excel file."

✓ ChatGPT gives:

vba

CopyEdit

Sub SaveSheet1AsPDF()

Dim ws As Worksheet

Set ws = ThisWorkbook.Sheets("Sheet1")

Dim filePath As String

filePath = ThisWorkbook.Path & "\" & ws.Name & ".pdf"

ws.ExportAsFixedFormat Type:=xlTypePDF, Filename:=filePath End Sub

⊀ Just run the macro—Sheet1 will be saved as a PDF in your workbook folder.

#### Step 5: Run the Macro

- 1. Close the VBA Editor (Alt + Q)
- 2. Go back to Excel
- 3. On the Developer tab, click Macros
- 4. Select SaveSheet1AsPDF → Click Run
- Sheet 1 will be saved as a PDF in the same location as your Excel file.

## 💾 Don't Forget: Save Your File Properly!

- Go to File → Save As
- Choose Excel Macro-Enabled Workbook
- Save with the extension: .xlsm

## P Tips:

- Make sure your workbook is saved first (so ThisWorkbook.Path works correctly)
- · Sheet 1 should contain printable data
- · You can customise the filename or path inside the code if needed

## Prompt:

"Write a macro to save Sheet1 as a PDF in the same folder as the Excel file."

# Best Practices for Asking ChatGPT

Tip	Why it Helps
Be specific	Helps ChatGPT give accurate code
Mention column/row locations	E.g., "Data is in columns A to C"
Say what Excel version you use	Some features differ in older versions
Describe the goal	Explain what result you want

# Quick Tips

- V Use ChatGPT to build custom formulas
- Ask for formula explanations if you're confused
- We use it as a personal Excel tutor
- Take help with writing and understanding VBA macros
- 💾 Save macro-enabled files as 🖽 (Excel Macro-Enabled Workbook)