

To make your **AI agent automatically detect new rows** in an Excel file and send WhatsApp messages using `pywhatkit`, you need to :-

□ **Agent Logic:**

- **Continuously monitor** the Excel file.
 - **Track which messages were already sent.**
 - On detecting a **new row**, send the message.
 - Optionally, **mark the message as "Sent"** to avoid duplicates.
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□ **Step-by-Step AI Agent: Auto-Detect New Rows and Send WhatsApp Messages**

□ **1. Excel File Format (`contacts.xlsx`)**

Name	Phone Number	Message	Status
John	+911234567890	Hello [name], welcome to our service!	Sent
Alice	+911112223334	Dear [name], don't miss this deal!	

- **New rows** will have an empty `Status`.
 - Agent will **replace** `[name]` and send WhatsApp message.
 - Then **update status** to "Sent".
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□ **2. Install Required Libraries**

```
pip install pywhatkit pandas openpyxl
```

□ 3. Python Script: AI WhatsApp Agent with Excel Monitoring

```
import pandas as pd
import pywhatkit as kit
import time

EXCEL_FILE = "contacts.xlsx"

def read_contacts():
    return pd.read_excel(EXCEL_FILE)

def save_contacts(df):
    df.to_excel(EXCEL_FILE, index=False)

def send_custom_message(name, phone, template):
    message = template.replace("[name]", name)
    try:
        hour = time.localtime().tm_hour
        minute = time.localtime().tm_min + 1

        print(f"📩 Sending message to {name} at {phone}")
        kit.sendwhatmsg(phone, message, hour, minute, wait_time=10,
tab_close=True)
        print("📩 Message sent.")
        return True
    except Exception as e:
        print(f"📩 Failed to send message to {phone}: {e}")
        return False

def run_agent():
    print("📩 AI Agent started. Monitoring for new contacts...")
    while True:
        df = read_contacts()

        # Loop through unsent rows
        for index, row in df[df['Status'].isna()].iterrows():
            name = str(row['Name'])
            phone = str(row['Phone Number'])
            template = str(row['Message'])

            if send_custom_message(name, phone, template):
                df.at[index, 'Status'] = 'Sent'
                save_contacts(df)

            time.sleep(15) # Wait before next message
```

```
time.sleep(10) # Poll every 10 seconds

# Run the agent
run_agent()
```

□ **Features:**

- Detects and sends messages for **only new rows**.
 - Replaces [name] with actual name.
 - Marks messages as "**Sent**" in the Excel.
 - Keeps running in the background like an **AI agent**.
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□ **Tips:**

- Keep WhatsApp Web logged in and browser open.
- Avoid sending too many messages in a short time (can lead to ban).
- You can run this script as a background service or on boot.