

Creating a **WhatsApp chatbot** that uses **Ollama (LLaMA 3)** to answer user queries via **n8n** is totally doable!

Here's a **step-by-step guide**, with an **n8n workflow setup** to:

☐ What You'll Achieve

- User sends a message on **WhatsApp**
- n8n receives the message
- It sends the message to **LLaMA 3** via **Ollama**
- Sends the AI's reply **back to the user on WhatsApp**

☐ Tools Required

Tool	Use
☐ n8n	Workflow orchestration
☐ Ollama	Local AI model (LLaMA 3)
☐ WhatsApp API (via Twilio or ultramsg, etc.)	Send/receive messages
☐ Webhook	Catch WhatsApp messages into n8n

☐ STEP-BY-STEP SETUP

☐ 1. ☐ Set up Ollama with LLaMA 3

In terminal:

```
ollama run llama3
```

☐ 2. ☐ Connect WhatsApp to n8n

You'll need either:

- ☐ **Twilio WhatsApp API**
- ☐ **OR UltraMsg API** (easy and affordable)

Let's assume you use **UltraMsg** for now (you can switch later).

a. Create a webhook in UltraMsg:

- Set it to point to your local/remote n8n webhook:

`http://<your-n8n-host>/webhook/whatsapp`

□ 3. □ n8n Webhook Workflow to Receive & Reply

Here's a full **n8n workflow JSON** to:

- Receive WhatsApp messages
 - Send the content to Ollama (LLaMA 3)
 - Send a reply back to the sender via UltraMsg API
-

□ n8n WhatsApp Chatbot with LLaMA 3

```
{
  "nodes": [
    {
      "parameters": {
        "path": "whatsapp",
        "method": "POST",
        "responseMode": "lastNode"
      },
      "id": "1",
      "name": "Webhook - WhatsApp Message",
      "type": "n8n-nodes-base.webhook",
      "typeVersion": 1,
      "position": [200, 300]
    },
    {
      "parameters": {
        "requestMethod": "POST",
        "url": "http://localhost:11434/api/generate",
        "jsonParameters": true,
        "options": {},
        "bodyParametersJson": "={\n  \"model\": \"llama3\",\n  \"prompt\": \"{{${json[\"body\"]}}}\",\n  \"stream\": false\n}"
      },
      "id": "2",
      "name": "Ask LLaMA 3",
      "type": "n8n-nodes-base.httpRequest",
      "typeVersion": 2,
      "position": [400, 300]
    },
  ],
}
```

```

    "parameters": {
      "functionCode": "const res = JSON.parse(items[0].json.body);\nreturn
[{\n  json: {\n    to: $json[\"from\"],\n    body: res.response.trim()\n  }\n}];"
    },
    "id": "3",
    "name": "Prepare Reply",
    "type": "n8n-nodes-base.function",
    "typeVersion": 1,
    "position": [600, 300]
  },
  {
    "parameters": {
      "requestMethod": "POST",
      "url": "https://api.ultramsg.com/{{your_instance_id}}/messages/chat",
      "jsonParameters": true,
      "authentication": "predefinedCredentialType",
      "options": {},
      "bodyParametersJson": "={\n  \"token\": \"{{your_token}}\",\n  \"to\": \"{{ $json[\"to\"] }}\",\n  \"body\": \"{{ $json[\"body\"] }}\"\n}"
    },
    "id": "4",
    "name": "Send WhatsApp Reply",
    "type": "n8n-nodes-base.httpRequest",
    "typeVersion": 2,
    "position": [800, 300],
    "credentials": {
      "httpBasicAuth": {
        "id": "your-ultramsg-credentials",
        "name": "UltraMsg API"
      }
    }
  }
],
"connections": {
  "Webhook - WhatsApp Message": {
    "main": [[{ "node": "Ask LLaMA 3", "type": "main", "index": 0 }]]
  },
  "Ask LLaMA 3": {
    "main": [[{ "node": "Prepare Reply", "type": "main", "index": 0 }]]
  },
  "Prepare Reply": {
    "main": [[{ "node": "Send WhatsApp Reply", "type": "main", "index": 0
}]]
  }
},
"name": "WhatsApp LLaMA 3 Chatbot",
"active": true,
"settings": {},
"version": 1
}

```

□ Test It

1. ☐ Start your Ollama model (`ollama run llama3`)
2. ☐ Activate the n8n workflow
3. ☐ Send a WhatsApp message (to the number linked with your API account)
4. ☐ LLaMA 3 will process and respond in WhatsApp

☐ Replace These:

- `{{your_instance_id}}` → from your UltraMsg dashboard
- `{{your_token}}` → your API token

You will see following after importing it:-

