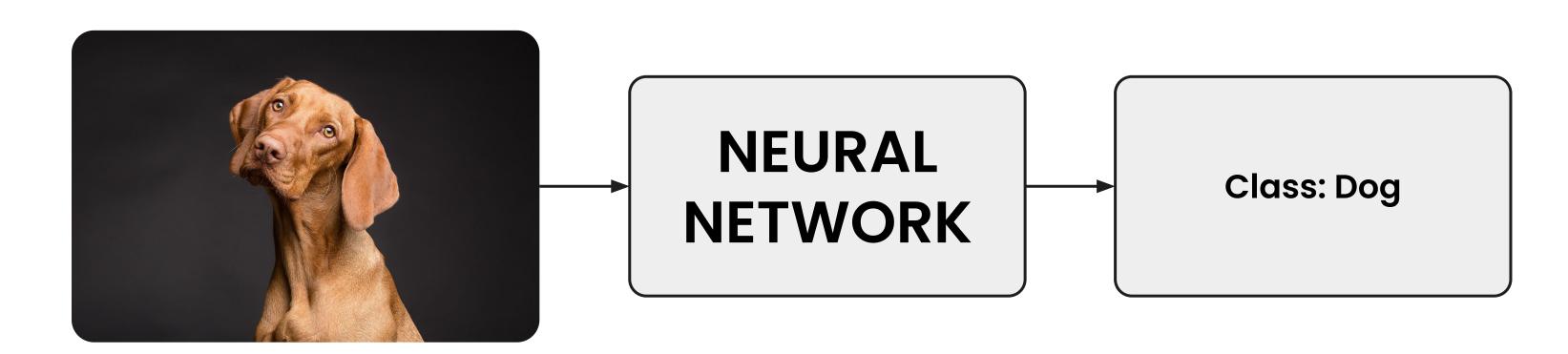


# QWEN 2.5VL

## IMAGE CLASSIFICATION

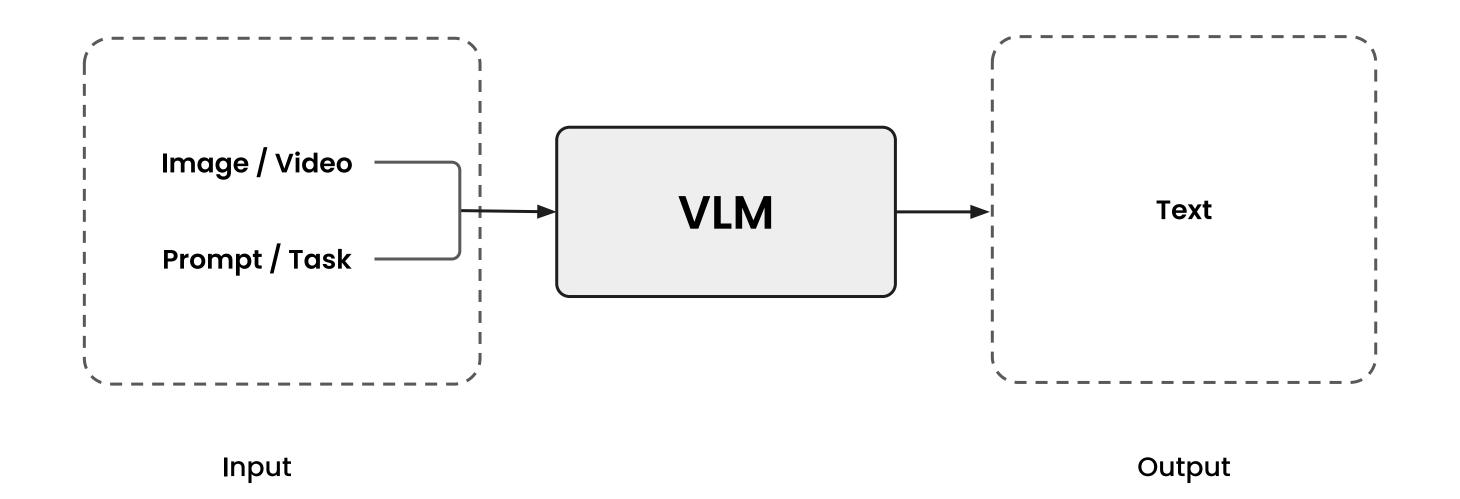




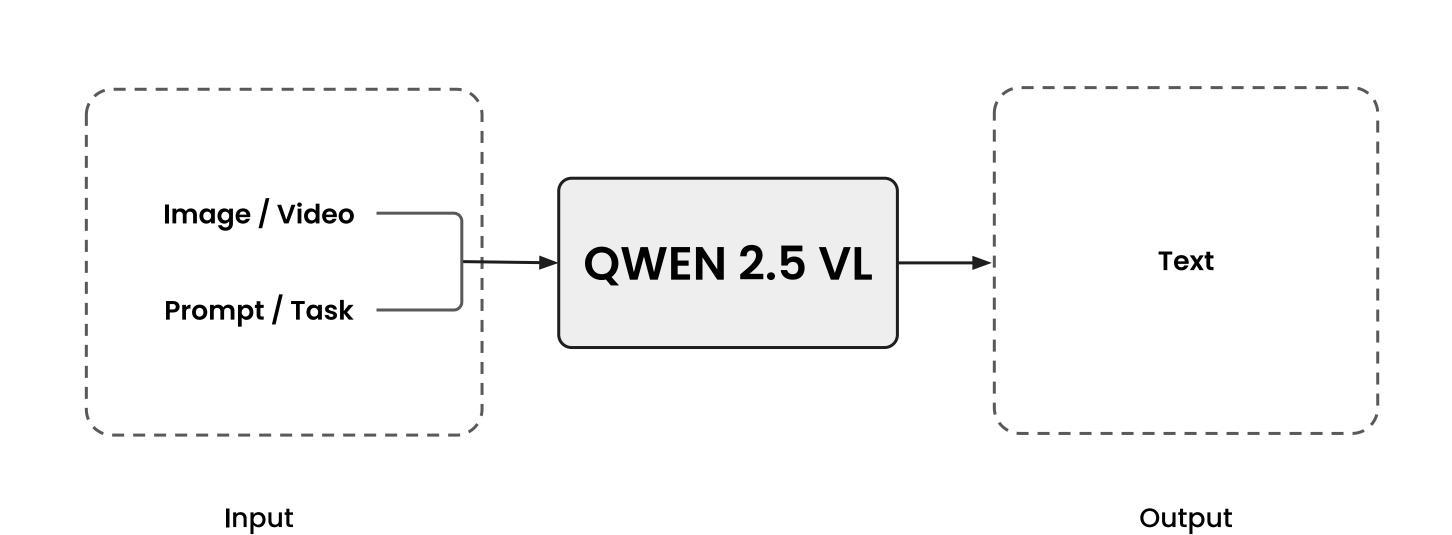
Input Output



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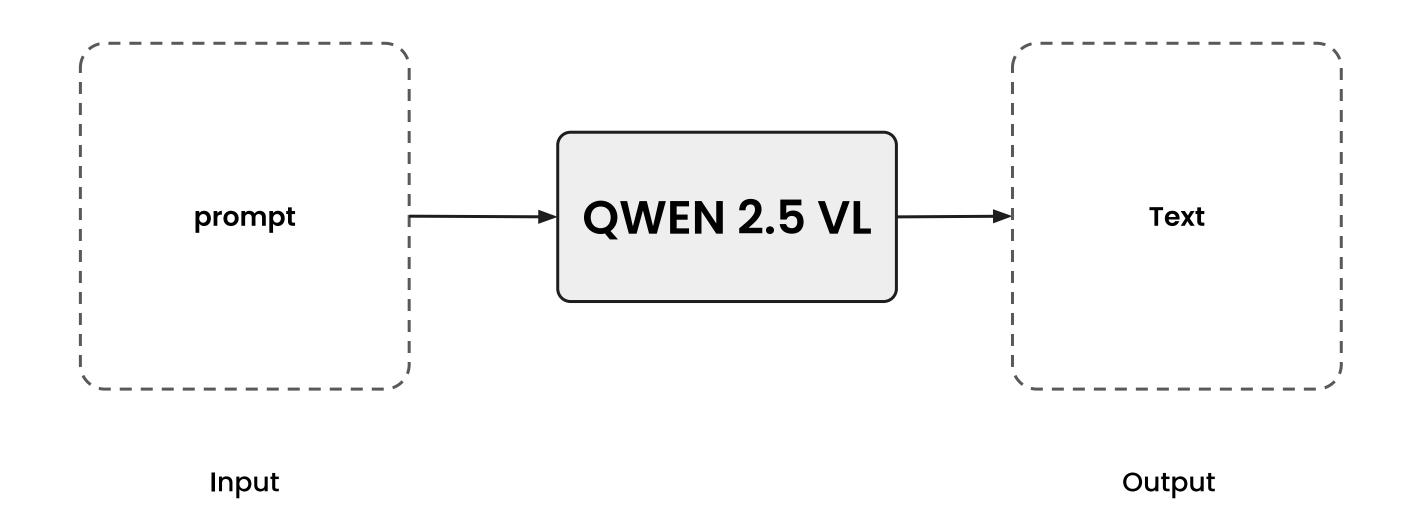






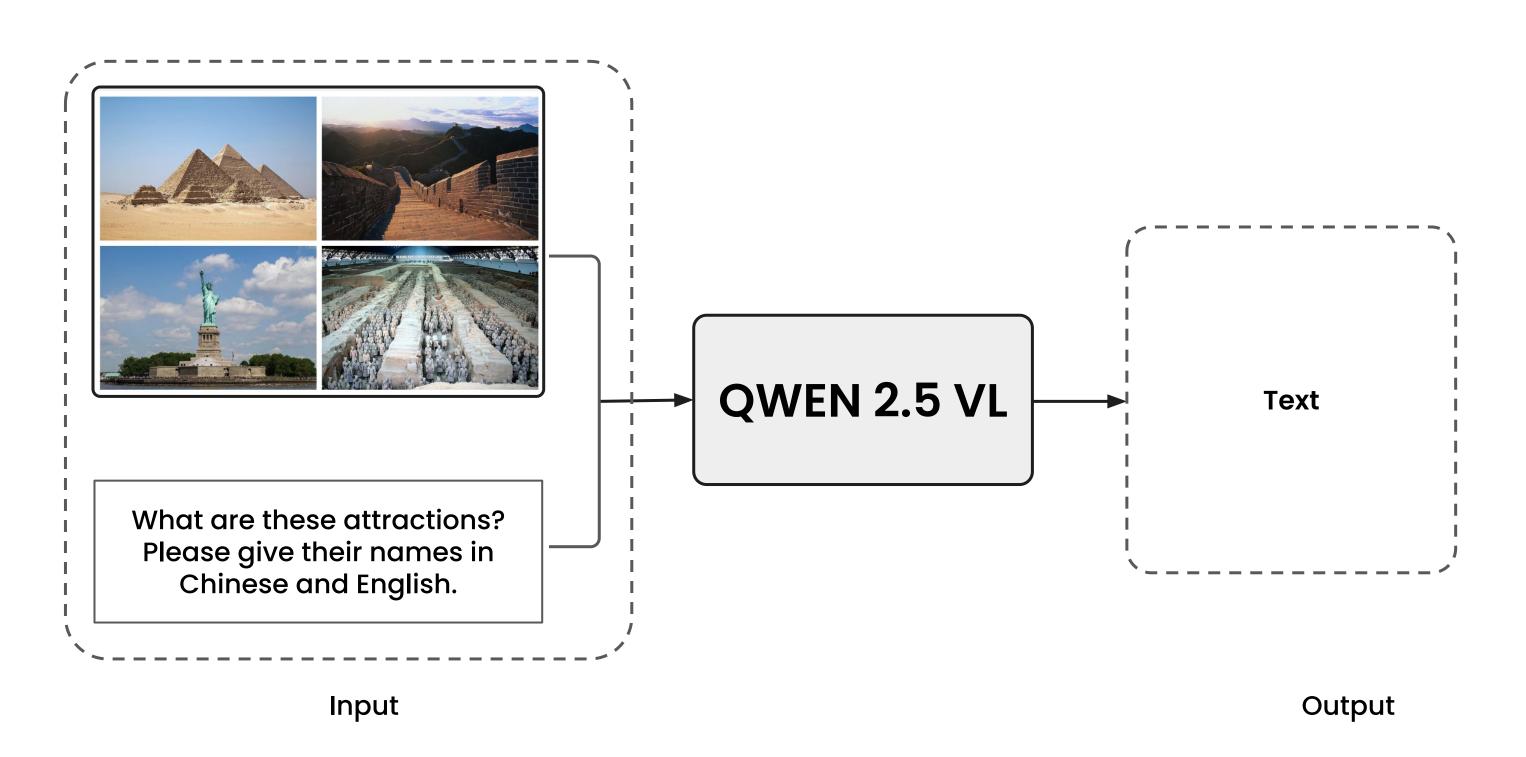


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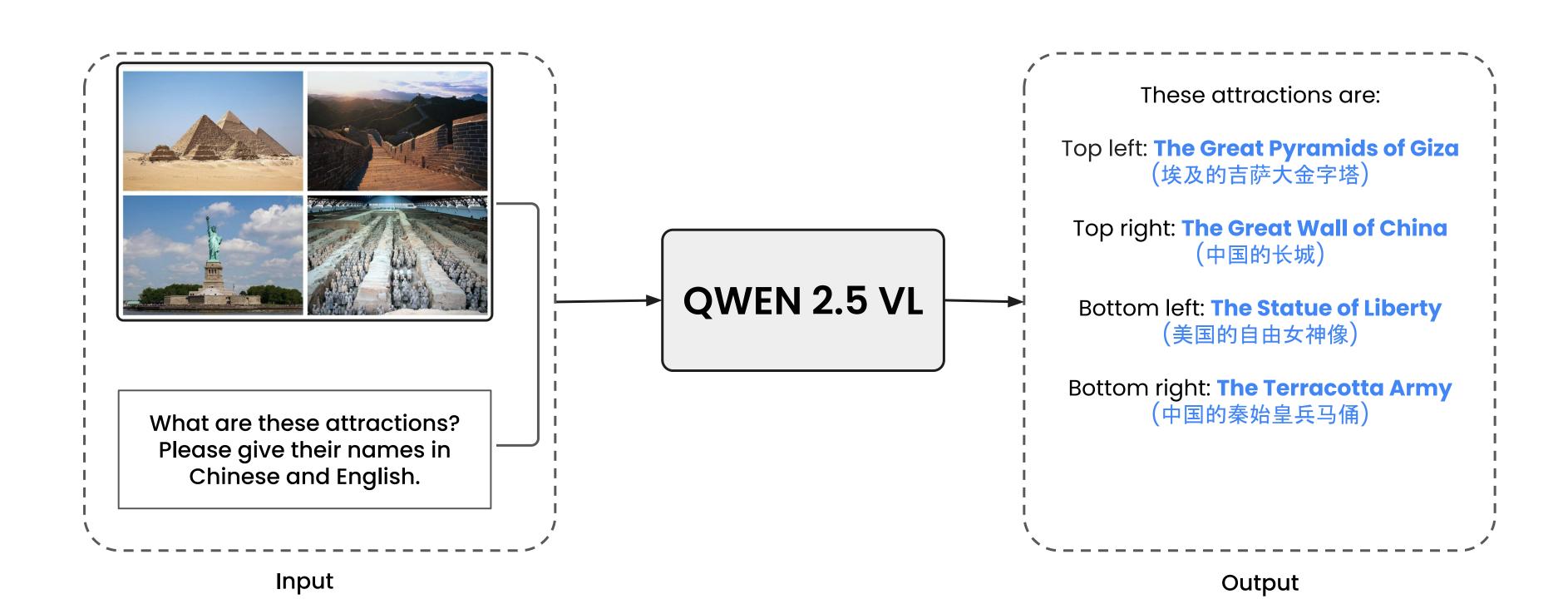


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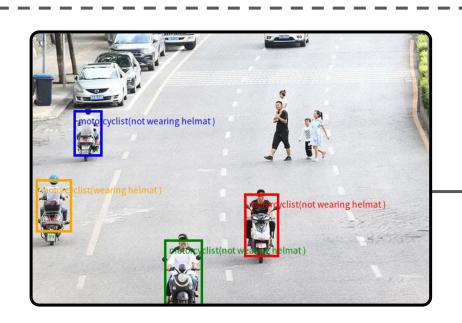


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Detect all motorcyclists in the image and return their locations in the form of coordinates.

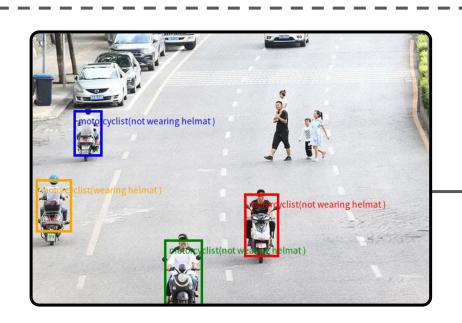
The format of output should be like {"bbox\_2d": [x1, y1, x2, y2], "label": "motorcyclist", "sub\_label": "wearing helmet" # or "not wearing helmet"}.

QWEN 2.5 VL

```
{"bbox_2d": [341, 258, 397, 360],
"label": "motorcyclist", "sub_label": "not
wearing helmat "},
   {"bbox_2d": [212, 332, 274, 448],
"label": "motorcyclist", "sub_label": "not
wearing helmat "},
   {"bbox_2d": [66, 124, 112, 198],
"label": "motorcyclist", "sub_label": "not
wearing helmat "},
   {"bbox_2d": [5, 235, 63, 320], "label":
"motorcyclist", "sub_label": "wearing
helmat "}
```



• • • • • • • •



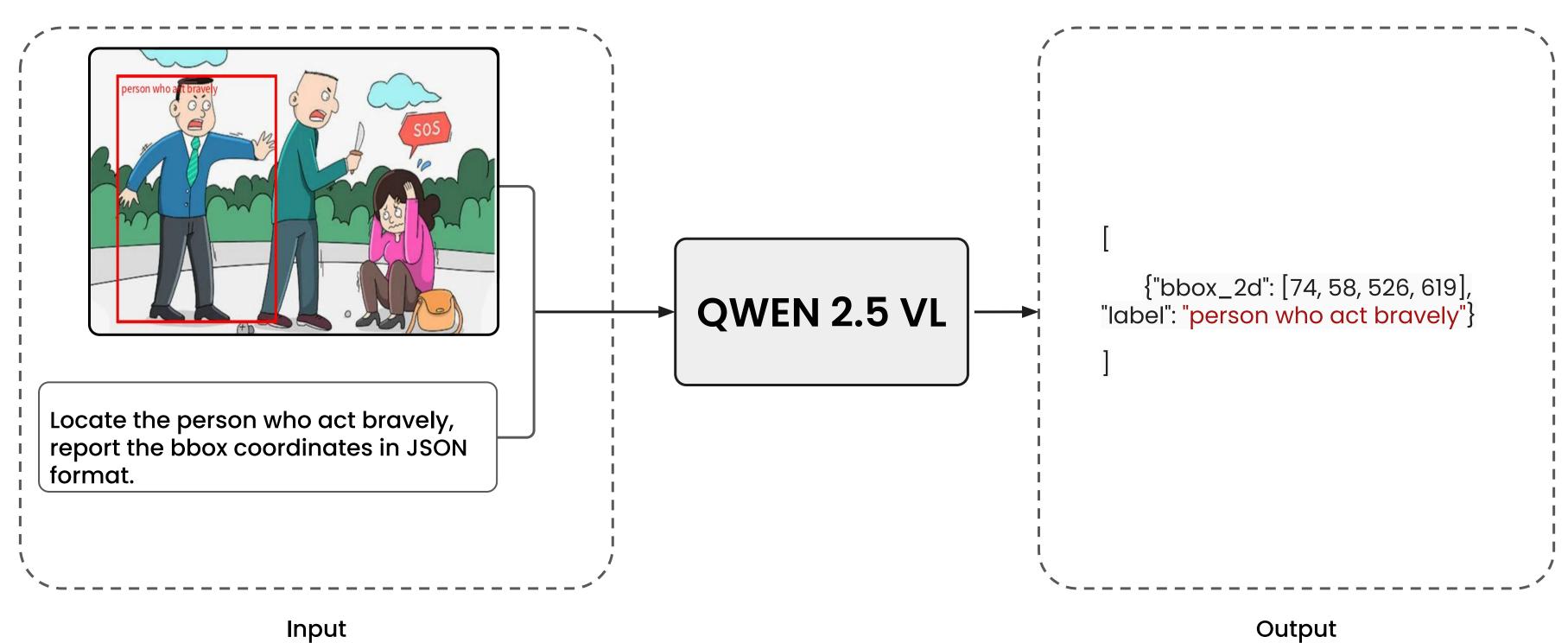
Detect all motorcyclists in the image and return their locations in the form of coordinates.

The format of output should be like {"bbox\_2d": [x1, y1, x2, y2], "label": "motorcyclist", "sub\_label": "wearing helmet" # or "not wearing helmet"}.

QWEN 2.5 VL

```
{"bbox_2d": [341, 258, 397, 360],
"label": "motorcyclist", "sub_label": "not
wearing helmat "},
   {"bbox_2d": [212, 332, 274, 448],
"label": "motorcyclist", "sub_label": "not
wearing helmat "},
   {"bbox_2d": [66, 124, 112, 198],
"label": "motorcyclist", "sub_label": "not
wearing helmat "},
   {"bbox_2d": [5, 235, 63, 320], "label":
"motorcyclist", "sub_label": "wearing
helmat "}
```

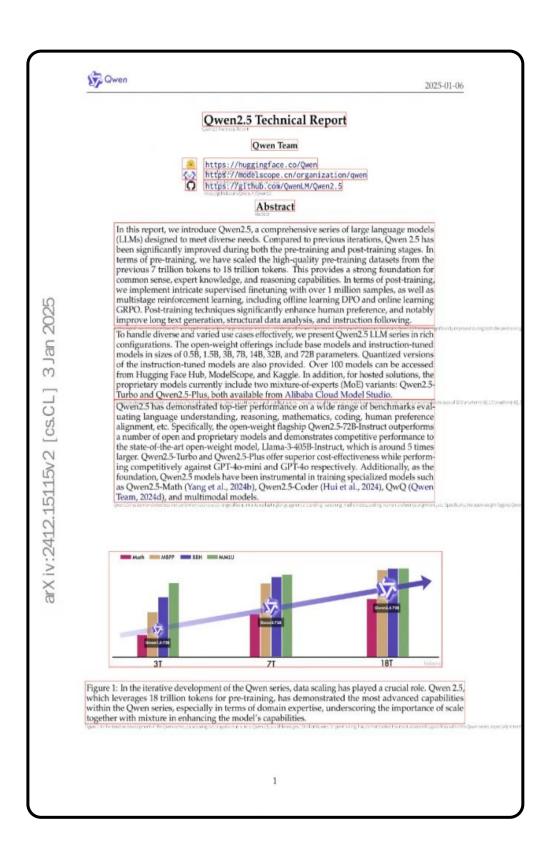




Output

#### **DOCUMENT PARSING**





```
<a href="https://www.ncbody><hld><html><body><hld>data-bbox="879 283 1605 348">Qwen2.5</a>
Technical Report</hl>h1>
<address class="author">Qwen Team</address>
<div class="image" data-bbox="778 491 850 541"><img</pre>
data-bbox="778 491 850 541"/></div>
541">https://huggingface.co/Qwen
<div class="image" data-bbox="778 541 850 589"><img</pre>
data-bbox="778 541 850 589"/></div>
589">https://modelscope.cn/organization/qwen
<div class="image" data-bbox="792 589 850 639"><img</pre>
data-bbox="792 589 850 639"/></div>
639">https://github.com/QwenLM/Qwen2.5
<h2 data-bbox="1143 681 1344 733">Abstract</h2>
```

#### LONG VIDEO ANALYSIS





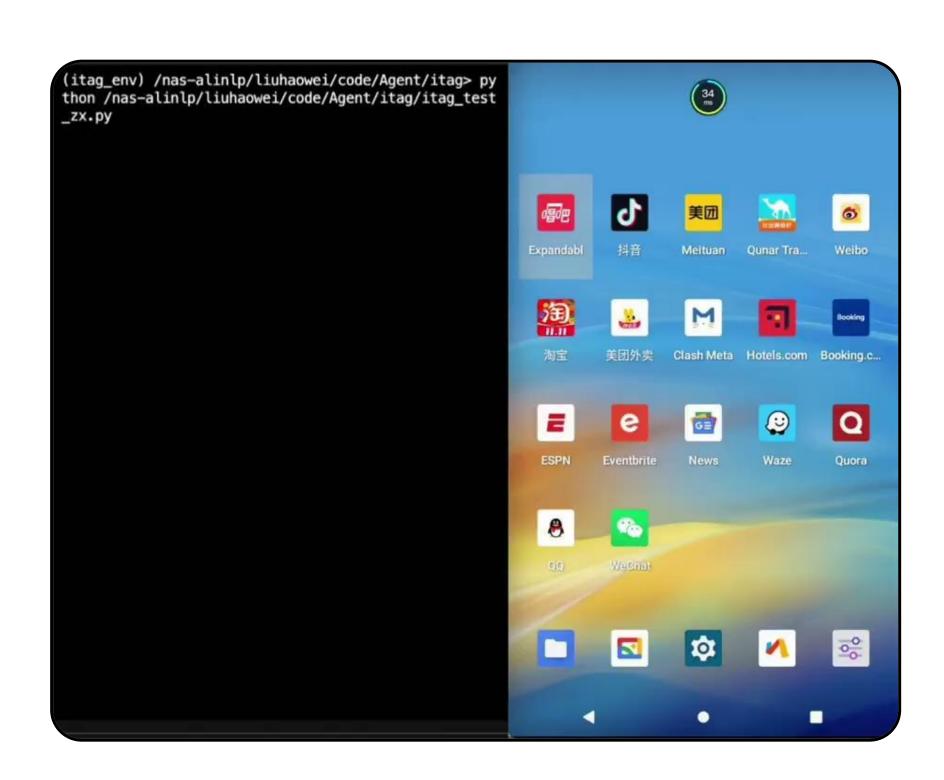
Localize a series of activity events in the video, output the start and end timestamp for each event, and describe each event with sentences. Provide the result in JSON.

```
"start_time": "00:21.00",
    "end_time": "00:49.00",
    "description": "A person removes a piece of meat from its
packaging and cuts off the fat."
    "start_time": "00:50.00",
    "end_time": "01:27.00",
    "description": "The person seasons the meat with salt and
pepper on both sides."
    "start_time": "01:28.00",
    "end_time": "01:36.00",
    "description": "The seasoned meat is placed on a grill."
```

#### **AGENT ACTIONS**



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Please help me book a one-way ticket in the bookings app. The starting point is Chongqing Jiangbei Airport and the ending point is Beijing Capital Airport on January 28th



# Usage

# **Qwen 2.5VL Chat Interface**



```
chat_response = client.chat.completions.create(
  model="Qwen/Qwen2.5-VL-7B-Instruct",
  messages=[
    {"role": "system",
    "content": "You are a helpful assistant."
    { "role": "user",
      "content": [
          "type": "image_url",
          "image_url": {"url": "https://example.com/image.png"
                             "type": "text",
                             "text": "What is the text in the image?"
```

# **QWEN 2.5VL: ROLE**



```
SYSTEM: Sets global behaviour

{
    "role": "system",
    "content": "You are an assistant that answers briefly, returns currency values in USD, "
    + "and uses JSON when a user asks for structured data."
```

# **QWEN 2.5VL: ROLE**







Name	Qwen/Qwen2.5-VL-3B-Instruct		
Summary	Multi-modal LLM capable of image, video and tool-augmented chat.		
Parameters	3 billion		
Release Date	April 2025		
Developer	Alibaba Cloud (Qwen team)		
License	Qwen license (research/non-commercial); 3 B & 72 B sizes are not Apache 2.0.		

# WILL IT FIT?



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Model size	Precision	Minimum VRAM needed*	Consumer cards that clear it
Qwen 2.5-VL-3B	8-bit / BF16	3.5 – 7 GB	RTX 3050 (6/8 GB)
	8-bit	8 GB	RTX 3070 Ti, RTX 3070, RTX 3060 Ti, RTX 3060, RTX 4060
Qwen 2.5-VL-7B	BF16	16 GB	RTX 3090, RTX 3090 Ti 24 GB, RTX 4080 SUPER, RTX 4080, RTX 4070 Ti SUPER, RTX 4060 Ti(16 GB)
Qwen 2.5-VL-32B / 72B	Any	≥ 24 GB (32B) / ≥ 80 GB (72B) or multi-GPU	Prosumer/enterprise (RTX 6000 Ada 48 GB, dual 4090s, etc.)

#### **IMAGE CAPTIONING**



 $\bullet \hspace{0.1cm} \bullet \hspace{0.1cm$ 

#### **INPUT**

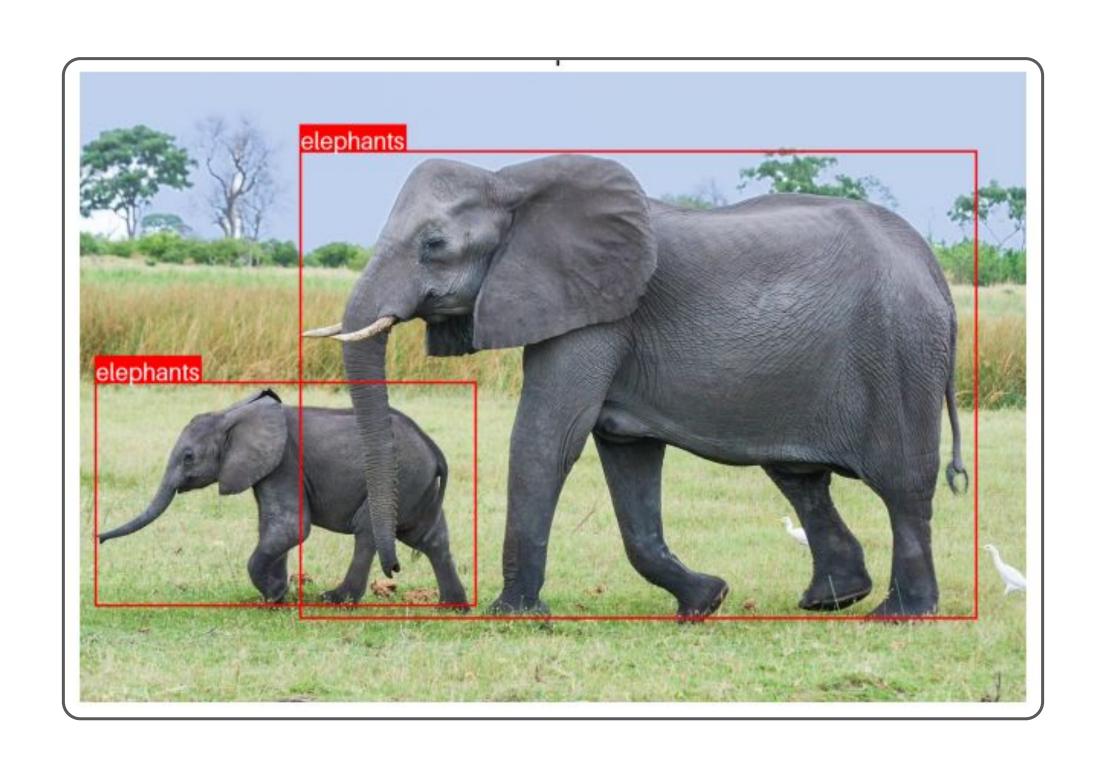


#### **OUTPUT**

The image depicts a serene and picturesque scene of a white dog sitting on a stone pathway near a stunning lake. The lake has crystal-clear turquoise water that reflects the surrounding landscape, including the mountains in the background. The mountains are covered with lush greenery, and the sky above is partly cloudy, adding to the tranquil atmosphere

# OBJECT DETECTION & SPATIAL REASONING APP







# Thank You