**Easy Image Captioning with Gemini 1.5 Pro.txt**

What does this do?

* **Start Trigger:**  
  You manually trigger the workflow to begin processing.
* **Import an Image:**  
  The workflow downloads an image from a URL (in this case, a photo from Pexels) using an HTTP Request node.
* **Prepare the Image for Analysis:**  
  It resizes the image to 512×512 pixels to ensure optimal processing by the AI, and retrieves its metadata (like dimensions) with an "Edit Image" node set to "information" mode.
* **Generate a Caption Using AI:**  
  An AI agent (the Image Captioning Agent) receives the prepared image as input and is prompted to generate an appropriate caption. The prompt instructs the AI to create a punny title along with a descriptive caption.
* **Calculate Overlay Position:**  
  A Code node calculates the best positioning and font size for overlaying the caption onto the image. It uses the image’s dimensions to determine padding, line count, and placement for the caption text.
* **Apply the Caption to the Image:**  
  Using an "Edit Image" node in a multi-step mode, the workflow draws a semi-transparent rectangle as a background and overlays the caption text on top of the image at the calculated position.
* **Merge the Layers:**  
  The workflow then combines the original image with the newly applied caption overlay to produce the final, captioned image.
* **Documentation and Guidance:**  
  Throughout the workflow, sticky notes explain each step—from image import and resizing, through AI caption generation, to the final overlay—making it easier for users to understand and customize the process.