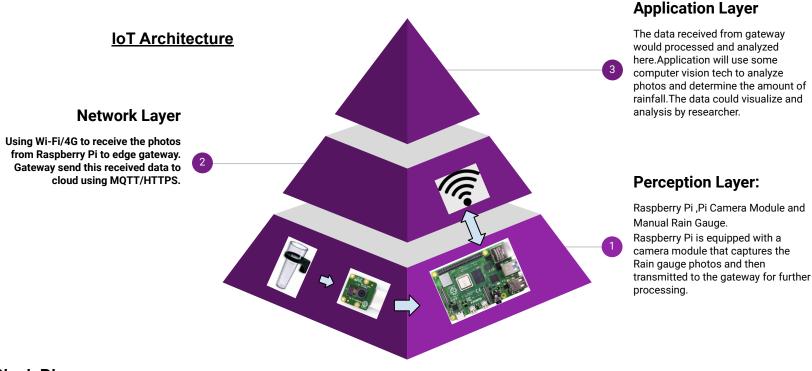
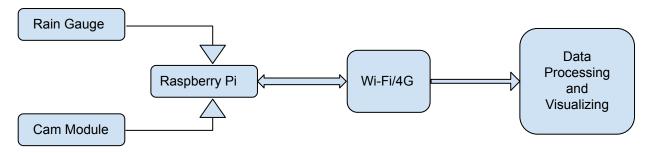
Validating AWS Rain Gauge Data from a manual Rain Gauge readings photo's



Block Diagram:



Rain Gauge: Equipment used by meteorologists and hydrologists to gather and measure the amount of liquid precipitation (Rainfall) over a predefined area, over a period of time

Cam Module: a custom designed add-on module for Raspberry Pi hardware.

- 1. Raspberry Pi captures image of the rain gauge data using the camera module.
- 2. The image data preprocessed on the raspberry pi to resize/compress the image for transmission.
- 3. The preprocessed image data is transmitted to the gateway using Wi-Fi.
- 4. The gateway receives the image data and performs further processing, such as analyzing the image to determine the amount of rainfall in the gauge.
- 5. The analyzed data compared with the AWS Rain Gauge data and visualizing.