**Temperature Anomaly Detector**

There are lots of organization in which measuring temperature is very important part of their work and also to keep a check that the temperature does not crosses the threshold, such as pharmacy company in which it is important to keep the medicines in under defined temperature.

This is all the project is about it measures the temperature using IoT device and temperature sensing sensor and therefore it sends the message to the person whenever the temperature crosses the threshold so that the right action can be taken on time.

**Pre-requirements:**

**Hardware requirements:**

* Bolt IoT Wi-Fi module v2 which has ESP8266 chip.
* LM 35 temperature sensor.
* Connecting wires (3 female to male wires).

**Others:**

* Twilio account.
* Server (I’m using local server on Linux o/s) for processing.
* Knowledge of python.
* Bolt cloud for storing data

**Steps:**

1. Connect the temperature monitoring circuit.

* Hold the sensor in a manner that LM 35 is visible to you.
* In this position identify the pins of the sensor as VCC, Output and Gnd fron your left to right.
* Using male to female wire connect the 3 pins of the LM35 to the Bolt Wifi Module as follows:

1. VCC pin of the LM35 connects to 5v of the Bolt Wifi module
2. Output pin of the LM35 connects to A0 (Analog input pin) of the Bolt Wifi module.
3. Gnd pin of the LM35 connects to the Gnd

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1. Create a config file which will have all the credentials such as device id, phone no. api key etc. from the Bolt cloud and twilio account. Command for creating new file is **sudo nano “file\_name”.py.**
2. Create another file for all processing and import previous file in it.
3. Save the file and run it on the terminal.

**Image of circuit:**

