

In [1]:

```
wml_credentials={  
    "url": "https://us-south.ml.cloud.ibm.com",  
    "apikey": "KM0jjT3paPNsslcxoQ5SiUjCBtxTYM_LYaiWH5Iec5FU",  
    "instance_id": "d5f213a2-db16-4e0a-9ff6-997ea661fe31"  
}
```

In [2]:

```
scoring_endpoint = "https://us-south.ml.cloud.ibm.com/v4/deployments/fc185b94-fa  
f3-407f-8657-cfbd8318f3f7/predictions"
```

In [3]:

```
!pip install watson-machine-learning-client
```

```
Requirement already satisfied: watson-machine-learning-client in /opt/conda/envs/Python36/lib/python3.6/site-packages (1.0.376)
Requirement already satisfied: urllib3 in /opt/conda/envs/Python36/lib/python3.6/site-packages (from watson-machine-learning-client) (1.24.1)
Requirement already satisfied: requests in /opt/conda/envs/Python36/lib/python3.6/site-packages (from watson-machine-learning-client) (2.21.0)
Requirement already satisfied: tabulate in /opt/conda/envs/Python36/lib/python3.6/site-packages (from watson-machine-learning-client) (0.8.2)
Requirement already satisfied: tqdm in /opt/conda/envs/Python36/lib/python3.6/site-packages (from watson-machine-learning-client) (4.31.1)
Requirement already satisfied: ibm-cos-sdk in /opt/conda/envs/Python36/lib/python3.6/site-packages (from watson-machine-learning-client) (2.4.3)
Requirement already satisfied: certifi in /opt/conda/envs/Python36/lib/python3.6/site-packages (from watson-machine-learning-client) (2020.4.5.1)
Requirement already satisfied: lomond in /opt/conda/envs/Python36/lib/python3.6/site-packages (from watson-machine-learning-client) (0.3.3)
Requirement already satisfied: pandas in /opt/conda/envs/Python36/lib/python3.6/site-packages (from watson-machine-learning-client) (0.24.1)
Requirement already satisfied: chardet<3.1.0,>=3.0.2 in /opt/conda/envs/Python36/lib/python3.6/site-packages (from requests->watson-machine-learning-client) (3.0.4)
Requirement already satisfied: idna<2.9,>=2.5 in /opt/conda/envs/Python36/lib/python3.6/site-packages (from requests->watson-machine-learning-client) (2.8)
Requirement already satisfied: ibm-cos-sdk-s3transfer==2.*,>=2.0.0 in /opt/conda/envs/Python36/lib/python3.6/site-packages (from ibm-cos-sdk->watson-machine-learning-client) (2.4.3)
Requirement already satisfied: ibm-cos-sdk-core==2.*,>=2.0.0 in /opt/conda/envs/Python36/lib/python3.6/site-packages (from ibm-cos-sdk->watson-machine-learning-client) (2.4.3)
Requirement already satisfied: six>=1.10.0 in /opt/conda/envs/Python36/lib/python3.6/site-packages (from lomond->watson-machine-learning-client) (1.12.0)
Requirement already satisfied: numpy>=1.12.0 in /opt/conda/envs/Python36/lib/python3.6/site-packages (from pandas->watson-machine-learning-client) (1.15.4)
Requirement already satisfied: pytz>=2011k in /opt/conda/envs/Python36/lib/python3.6/site-packages (from pandas->watson-machine-learning-client) (2018.9)
Requirement already satisfied: python-dateutil>=2.5.0 in /opt/conda/envs/Python36/lib/python3.6/site-packages (from pandas->watson-machine-learning-client) (2.7.5)
Requirement already satisfied: docutils>=0.10 in /opt/conda/envs/Python36/lib/python3.6/site-packages (from ibm-cos-sdk-core==2.*,>=2.0.0->ibm-cos-sdk->watson-machine-learning-client) (0.14)
Requirement already satisfied: jmespath<1.0.0,>=0.7.1 in /opt/conda/envs/Python36/lib/python3.6/site-packages (from ibm-cos-sdk-core==2.*,>=2.0.0->ibm-cos-sdk->watson-machine-learning-client) (0.9.3)
```

In [4]:

```
from watson_machine_learning_client import WatsonMachineLearningAPIClient
```

In [5]:

```
client = WatsonMachineLearningAPIClient(wml_credentials)
```

In [6]:

```
#testing to see whether the model works using random values temp_firefighting_suit: 120, heart_rate:58 and external_temperature: 450 and external_humidity:83

payload_scoring = {"input_data": [{"fields": ["temp_firefighting_suit", "heart_rate", "external_temperature", "external_humidity"], "values": [[45,150,150,70]]}]
client.deployments.score(scoring_endpoint,payload_scoring)
```

Out[6]:

```
{'predictions': [{'fields': ['prediction', 'probability'],
  'values': [[2.0,
    [0.014320042915642262, 0.9656503200531006, 0.02002967149019241
3]]]]}]}
```

In [ ]: