Total marks: 100

LOCAL INFERENCE (50)

1. USER INPUT

* Collect real-time input by touch screen, mic or camera (15) (To be done by taking photo of handwritten text and sending it as a photo)
* Load input from storage (8)

1. LOCAL INFERENCE AND RESULT DISPLAY (20) (Cloud inference: Sending the picture via MQTT to Cloud Machine where the inference happens.)

* Focus on uploading inference to Cloud to gain marks for this automatically
* Using AI model, NOT heuristic (15)
* Displaying Inference result by screen (5)

1. Running on Pi (15)

CLOUD INFERENCE (30)

1. Run inference in cloud machine

* Deploy server program on cloud virtual machine/Own computer (10)

1. Communiation between IOT and Cloud (This happens via MQTT)

* Send user input from mobile app to cloud (10)
* Send inference result from cloud to Pi (10)

Model selection

Downloaded pre trained model (8)

Support multiple users (Demonstrate multiple iot devices being able to use cloud service simultaneously) (10) (MQTT supports this, just have different clients)

Online model updating (Retraining of model) (10)