# Data Engineering Milestone - I

Date	Day of Week	Approximate Time of day for your data access	# Sensor Readin gs	Total Data Saved (KBs)	# Pub/Sub messages published and received
04/14/2024	Sunday	11:00 am		81076	
04/15/2024	Monday	11:00 am		84748	
04/16/2024	Tuesday	11:00 am		56636	
04/17/2024	Wednesday	11:00 am		66304	
04/18/2024	Thursday	11:00 am		92620	
04/19/2024	Friday	11:00 am		87032	
04/20/2024	Saturday	11:00 am	25.5k	92732	25.5k
04/21/2024	Sunday	11:00 am	29k	99964	29k

- A. Create, Configure and Run Your Virtual Machine Done
- B. Initial Python Data Gatherer Done

  Data Gathering script pushed by Jathin
- C. Run the Data Gatherer Daily Done

Crontab setup by Siddhanth

```
siddhan@dataeng:~$ crontab -1
# Edit this file to introduce tasks to be run by cron.
#
# Each task to run has to be defined through a single line
# indicating with different fields when the task will be run
# and what command to run for the task
#
# To define the time you can provide concrete values for
# minute (m), hour (h), day of month (dom), month (mon),
# and day of week (dow) or use '*' in these fields (for 'any').
# Notice that tasks will be started based on the cron's system
# deemon's notion of time and timezones.
#
# Output of the crontab jobs (including errors) is sent through
# email to the user the crontab file belongs to (unless redirected).
#
# For example, you can run a backup of all your user accounts
# at 5 a.m. every week with:
# For more information see the manual pages of crontab(5) and cron(8)
#
# For more information see the manual pages of crontab(5) and cron(8)
# m h dom mon dow command
30 20 * * * ./home/siddhan/dataeng-project/runscript.sh
siddhan@dataeng:~$
```

### D. Configure Google Cloud Pub/Sub - Done

Pub/Sub Config and pipeline setup by Vipul

#### E. Parse JSON into Individual Breadcrumb Records - Done

Pub/Sub Config and pipeline setup by Vipul

#### F. Send Breadcrumb Records to Pub/Sub Topic - Done

Pub/Sub Config and pipeline setup by Vipul

#### G. Pub/Sub Receiver - Done

Pub/Sub receiver script setup by Vipul

## H. Configure Linux to Run Pub/Sub Receiver Continually - Done

Systemctl and service file configurations by Raghuram

```
(dataeng-gowda-vipulp) x (dataeng-gowda-vipulp) x + *

For more information see the manual pages of crontab(5) and cron(8)

* m h dom mon dow command
30 18 ** */nome/vipulp/dataeng-project/runscript.sh
(env) vipulp@wm-dataeng:/dataeng-project/runscript.sh
(env) vipulp@wm-dataeng-project/runscript.sh
(env) vipulp@wm-d
```

## I. Schedule your VM to start and stop automatically - Done

VM instance scheduling setup done by siddhanth and Jathin

