# **Designing a Data as a service and Model as a service**

## Big Data and Intelligent Analytics - Fall 2022

## Assignment 2

## TEAM 5

## 

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# **Data as a Service**

API using Fast API that can retrieve samples of different kinds

The 5 functions that we have developed are

1. Drops rows with null/Nan cells
2. Returns an event on respect with the given ID
3. Returns events on the basis on the event type
4. Returns an the location with respect to the event\_id
5. Returns all the events of a particular image type or a particular sensor reading



# **Testing Daas**

**DATA AS A SERVICE(DaaS.py)** [**http://127.0.0.1:8000/docs**](http://127.0.0.1:8000/docs) **:- Unit Test Document:**  
  
**API’s under DaaS:-**  
Graphical user interface, text, application, email

Description automatically generated

**/get-removeNull/ :**  
This API drops rows with null/Nan cells and returns the JSON format of CATALOG.csv .  
Text

Description automatically generated

**/get-event-byId/{event\_id} :**

This API returns an event on respect with the given ID.  
Description :  
event\_id : String.

Example :- S835047

Graphical user interface, text

Description automatically generated

**/get-events-byType/{event\_Type}:**

This API returns events on the basis on the event type.  
Description :  
event\_id : String.

Example :- Tornado, Flood, etc. Text

Description automatically generated

**/get-event-location/{event\_id}:**

This API returns an the location with respect to the event\_id

Description :  
event\_id : String.

Example :- S835047

Background pattern

Description automatically generated

**/get\_by\_img\_types/{img\_types}:**

This API returns all the events of a particular image type or a particular sensor reading.

Description :  
event\_id : String.

Example :- vis, vil, etc.

Graphical user interface, text

Description automatically generated

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# References

* <https://www1.ncdc.noaa.gov/pub/data/swdi/stormevents/csvfiles/Storm-Data-Export-Format.pdf>
* <https://nbviewer.jupyter.org/github/MIT-AI-Accelerator/eie-sevir/blob/master/examples/SEVIR_Tutorial.ipynb>
* <https://www.ncdc.noaa.gov/stormevents/ftp.jsp>
* <https://github.com/MIT-AI-Accelerator/sevir_challenges>
* <https://github.com/googlecodelabs/tools>