**Your Project Proposal: Towards Data Heterogeneity and Case Refinement**

**Identify and Develop a Case**

The European Space Agency Database and Information System Characterizing Objects in Space https://discosweb.esoc.esa.int/

**Case Update**

After reviewing my data source I’ve decided to stick with the European Space Agency Database and Information System Characterizing Objects in Space. I’ve performed test API calls on the data and it is extremely detailed and reliable.

I also believe we could use The Center for Orbital and Reentry Debris Studies CORDS Reentry Database. https://aerospace.org/reentries

**Final Project Proposal**

The European Space Agency’s (ESA) goal with this database is to have a single reliable sources for as many objects in space is possible. This data is primarily used in assisting with object avoidance in orbit. Something I think we could do with the data and use Pandas/Jupyter notebooks, is to have a notebook that could have tables and graphs that help to inform people about the issue of space debris and why it can be such a big deal to keep track of it. We could show tables and graphs that can help depict the severity of the issues. We could potentially pull data on the International Space station and show any objects near it or any that had been near it. We could even show how often satellites have made corrections just to avoid objects. There are many more things that could be done with this data, but I am unsure how much can be done within the scope of this project.

I also believe we could use another data source like The Center for Orbital and Reentry Debris Studies CORDS Reentry Database. This database documents objects and payloads that have reentered earth’s atmosphere since 2000. They have the data available as free download as a CSV. This data could suppliant our primary data source. It could assist in our point in informing people about the issue of space debris.