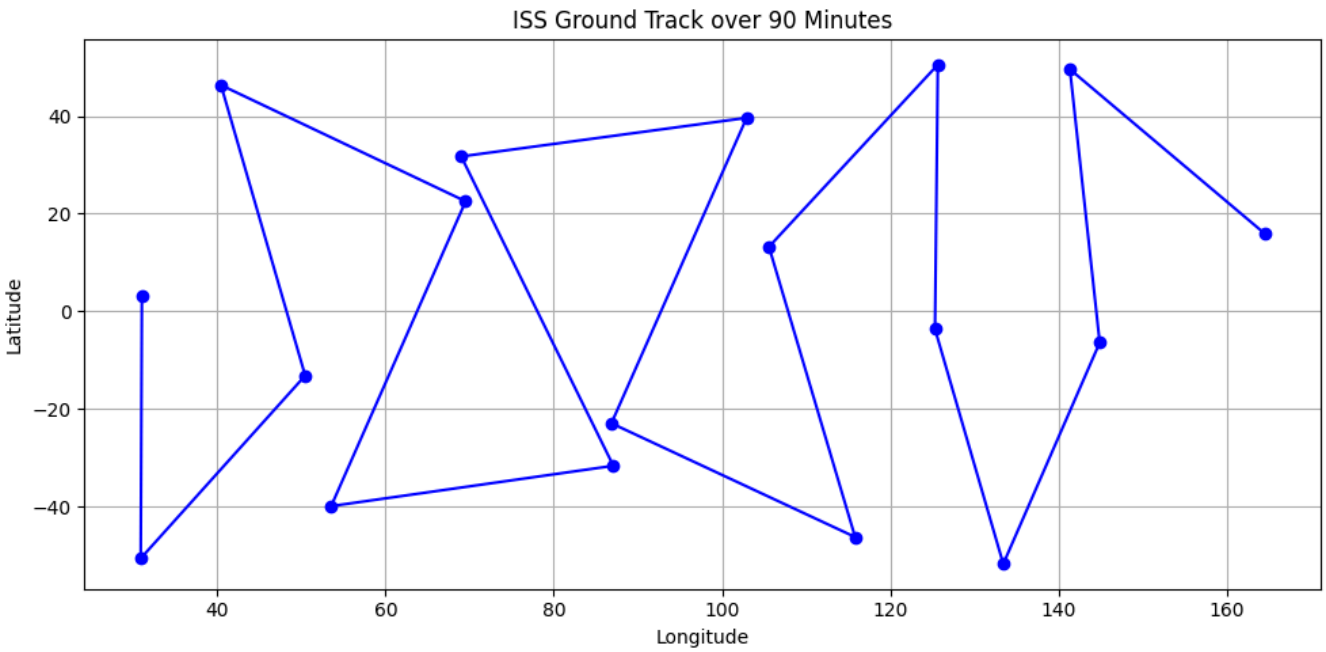
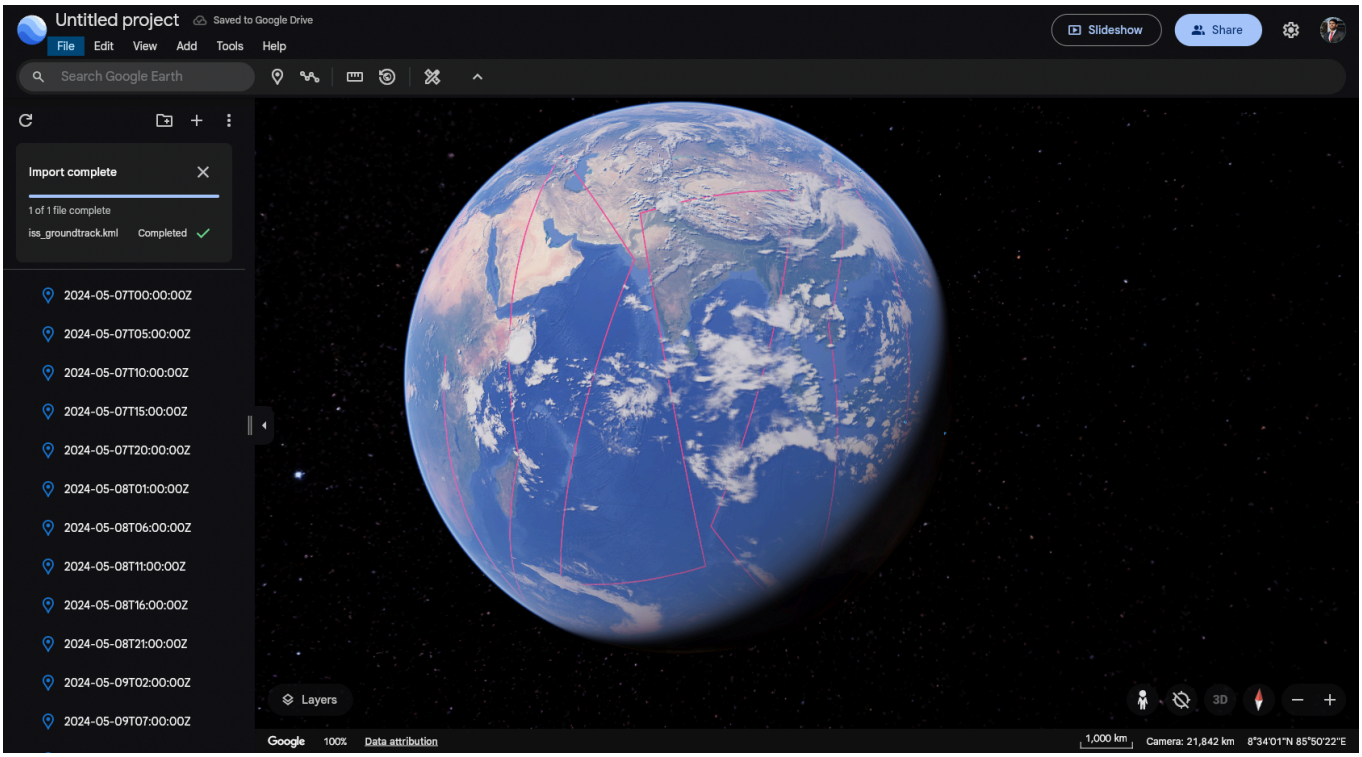
SAT work



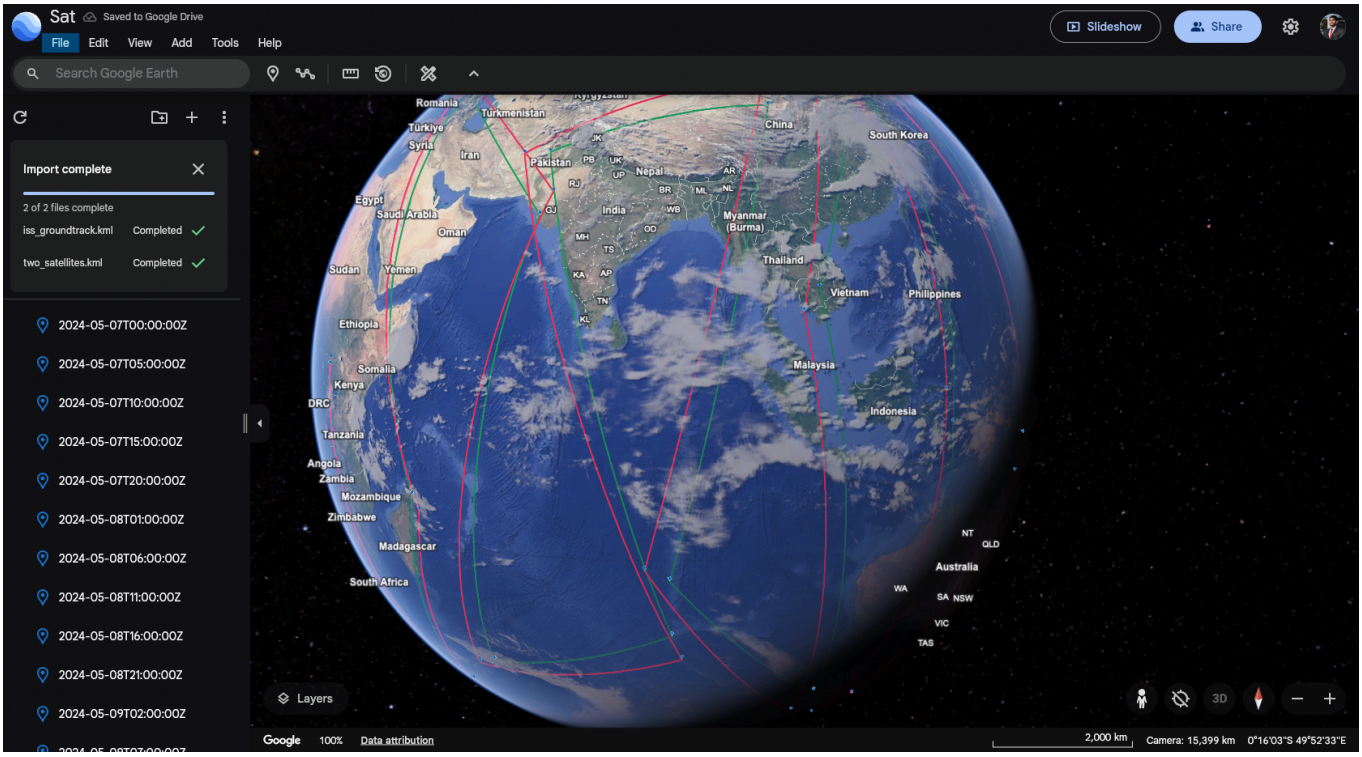
Satellite path in 2-D

Exported it to KML -

Path of SAT 1

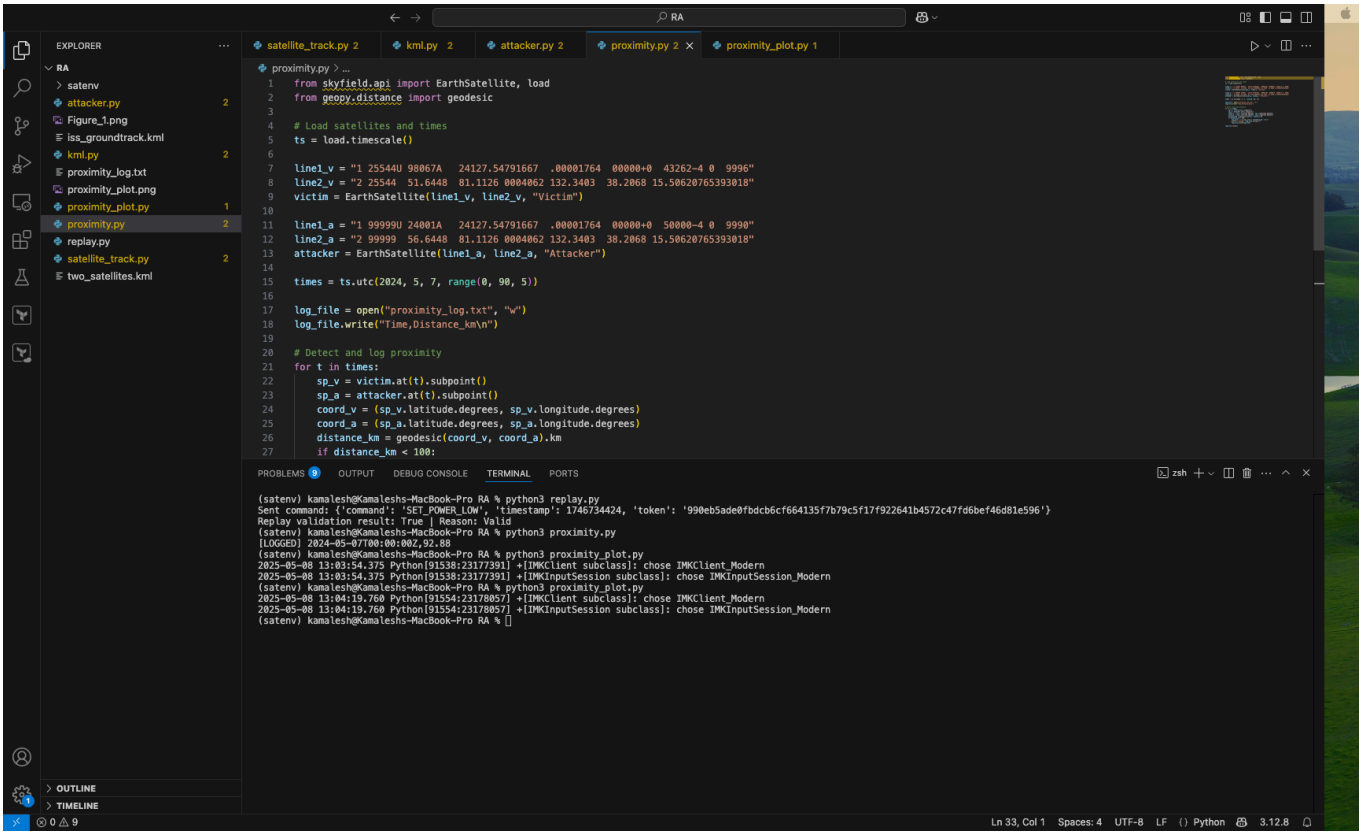


Path of both simulated SATs -

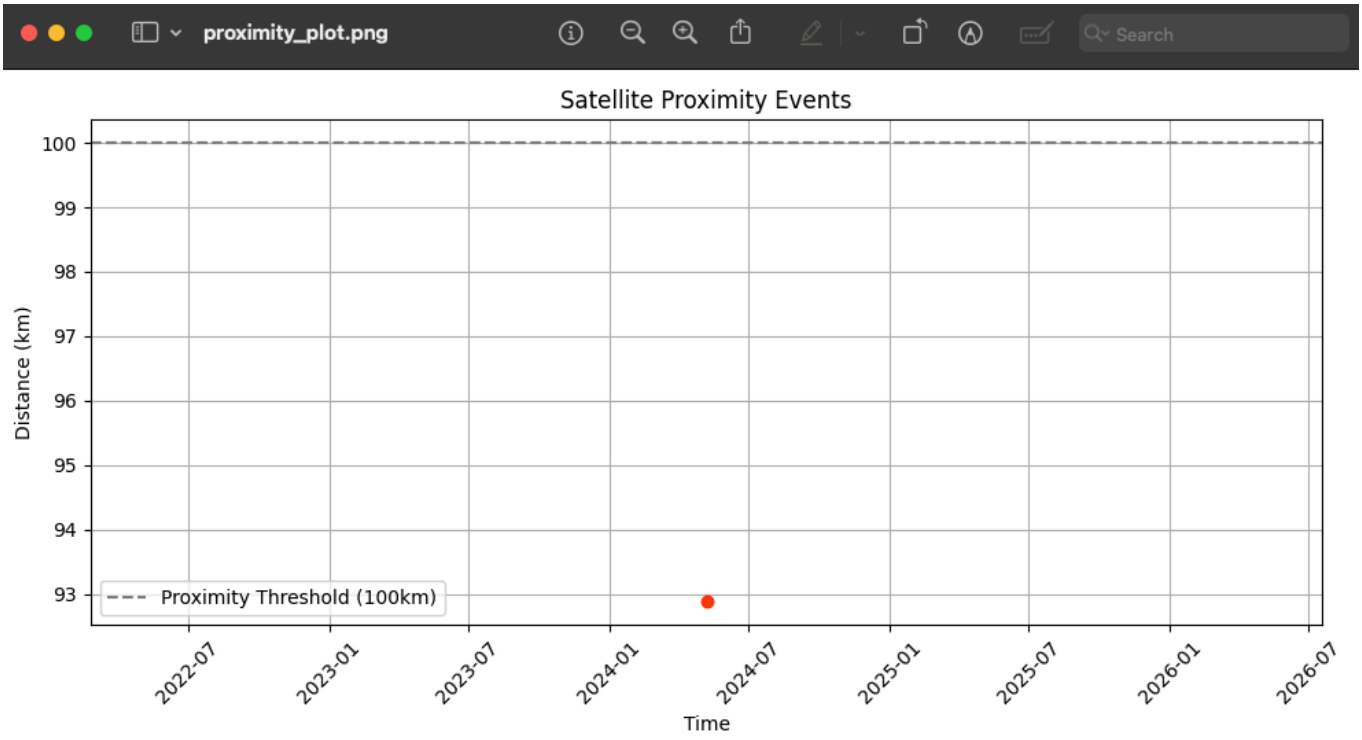


Adding a second satellite with a slightly offset orbit (e.g., 5° inclination difference) and plots both on the same map.

Also came up with further codes to calculate proximity (wasn't sure of the need) -



Since distance <100km.Only one proximity event had come.

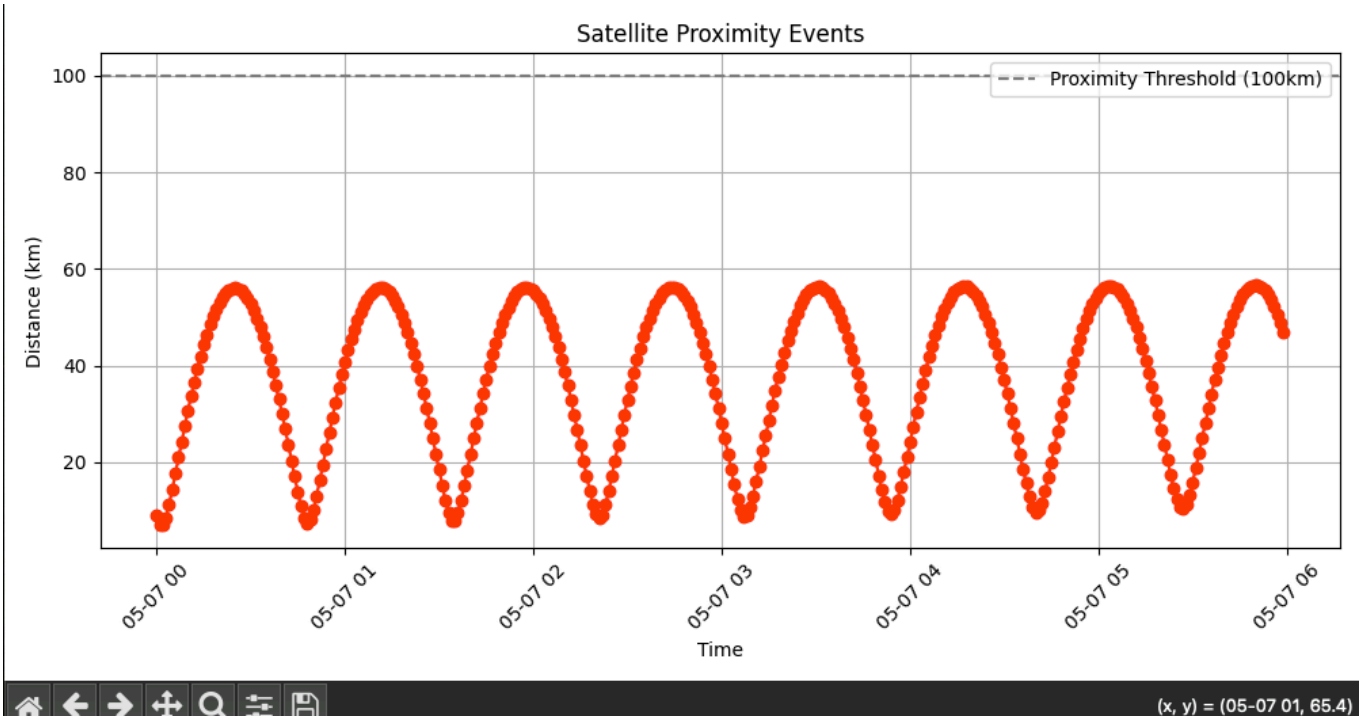


Adjusted code with -

- **1-minute resolution** captures more moments of closeness
- **6-hour window** increases chances of orbital crossing

- **<300 km threshold** captures more near misses that are still relevant in satellite comms range
- **Slightly adjusted attacker orbit** ensures it's not too far from the victim

and got this -



PS : Not sure if this is concept proximity is necessary for us but just explored on it a little.