Catchment Area of Osman Sagar

Introduction: Krishna River is a very important water body in South India and a tributary of the river runs through the city of Hyderabad. This tributary is locally called Musi River. This tributary too has many water sources that feed it, one of them being Osman Sagar, one of Hyderabad's famed lakes. The Osman Sagar is separated from the river by a dam, but when the dam is opened it is the main source of water to the River. This map shows the catchment area of Osman Sagar and the water sources that feed the great lake.

Data: The data used in this map was taken from the following sources-

- DEM-
  https://earthexplorer.usgs.gov/

- District Boundaries-
  http://projects.datameet.org/maps/districts/#india-district-boundaries

- River Point Station (Osman Sagar)-
  https://indiawris.gov.in/wris/#/RiverMonitoring

- Location of Hyderabad and Osman Sagar- Google Earth Pro

- Tutorials- Spoken Tutorials

Methods: These are the methods used to attain the final map-

- After finalizing the theme of the map, I used Earth Explorer to generate DEM files of the area I planned on mapping.

- Once the DEM file was uploaded to the QGIS software I followed the instructions provided from the tutorials on Day 2 to map the catchment area of a river.

- Once I had the catchment area mapped, I uploaded the district map of India onto QGIS. From here, I used the tools and instructions provided to digitize maps. I digitized the districts relevant to my map and discarded the rest.

- Finally, I put to use the other set of tutorials on Day 2, on how to make maps. Following the tutorial, I made my Final Map of the Catchment Area of Osman Sagar.