

Asad Arshad

Astrophysicist, Geospatial Specialist & Programmer

SOFTWARES

VS code

MS office

ArcGIS Desktop & Pro

MySQL

PAST WORK [CONT...]

2024 | QSOs Spectra and Virial BH masses on SDSS

SOLO · SciServer

In this little side project, I explored the vast dataset on Spectra of QSOs through python as well as performed some stats on the BH mass dataset from **Vizier**.



2023 Exoplanets around “TRAPPIST-1” through “KEPLER”

LEAD · FITS Liberator & MAST 📍

Analysing the Light curves of "TRAPPIST-1" that we made using the "Transit data" from **Kepler Mission** and **K2** and studied the orientation and general planetary parameters of the planets in TRAPPIST system.



2023 Satellite Orbits and Ground Track using “Keplerian Elements”

SoLo · Python & VS code 📍

We used the keplerian elements information on Satellites like Landsat and wrote a python script that calculated the path of satellite and animated the plot as well as it's ground track on a longitude and latitude axes with labels.

2023 **Roulettes: Animating mathematical curves using p5js**

SOLO · p5.js & p5.js Web editor 📍

Utilizing the potential of p5.js, we had fun creating and animating roulette, from differential geometry of curves, and both learned js and recreated shapes like cycloids, epicycloids, heart curves and a lot more.



2022	Earth is Flat. Dont you Know?
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SCRIPT WRITER · MS Word

A documentary into the stories about the very shape of our own planet, made with classmates, exploring how the earth was once viewed and still is by some people on this round round planet.



2022	Trigonometric functions estimation without 3rd party libraries
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SoLo · Python & VS code 📍

As an experiment in mathematics and programming, we use maths functions to calculate Trigonometric functions on our own and compared the result with values from libraries like **Numpy** and **math**.




and many many more. (For them, check my **Portfolio**)

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My Portfolio

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