

Aparna V

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Profile

Data science and machine learning enthusiast seeking an opportunity to apply skills in the industry to meet challenging work assignments and to gain more theoretical as well as practical knowledge in the same.

Education

2020 – 2022 Thiruvananthapuram, Kerala	MSc Computer Science-Geospatial Analytics <i>Indian Institute of Information Technology and Management-Kerala</i>
2017 – 2020 Anantapur, Andhra Pradesh	BSc(Honors)-Physics <i>Sri Sathya Sai Institute of Higher Learning</i>

Certificates

IBM Data Science Professional Certificate Professional certificate offered by IBM via Coursera. Consists of ten courses that include open source tools and libraries, Python, databases, SQL, data visualization, statistical analysis, predictive modelling and Machine Learning algorithms.	Python for Data Science A course offered by IBM via cognitive class which offers knowledge about the python libraries and tools useful in data analysis.	Machine Learning in GIS Program offered by Udemy Learning Platform. Learned about the different machine learning algorithms used for classification of land areas for the purpose of land cover monitoring and change detection analysis in the Geospatial industry.
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Skills

Data Analysis	Data Visualization
Machine Learning	Python programming language
SQL	R programming language
Folium	IBM Watson Studio
IBM Db2	ESRI ArcGIS
Google Earth Engine	QGIS
HTML and CSS	MS Office

Projects

Applied data science capstone-SpaceX project

The SpaceX spacecraft launching company launches its satellites with comparatively much lesser budget than other companies. The reuse of the first stage of the rocket is the reason for this reduced cost. The project aims at predicting whether the first stage of the Falcon 9 booster lands successfully in order for it to be reused, thus giving a chance for other spacecraft manufacturing companies, a chance to bid against SpaceX. The tools used: IBM Watson studio, IBM Db2, Plotly Dash, Folium.

Flood Mapping and Asset Damage Assessment

Mapping the flood prone areas of Ernakulam district by performing weighted overlay analysis in ArcGIS pro. Created a flood damage assessment tool in Google Earth Engine which assesses the damage caused to the cropland and urban areas using a Sentinel 1 change detection approach

Geospatial Analysis of road accidents in Trivandrum-2019

Spatial Analysis of road accidents that have occurred in the Trivandrum district in the year 2019 using python, R, ArcGIS pro, and QGIS

Machine Learning Applications in GIS

Classification of land surface using machine learning algorithms using Google Earth Engine.

Web Tracking program

Program to store and track the list of sites along with the timestamp information while a person browses the internet.

Simulation using python

Simulation and animation of the working of a double pendulum using python and matlab.

Professional Experience

Gurugram, Haryana

AI/ML Analyst

Number Theory

Worked as AI/ML analyst in the sales wing to provide solutions to banking as well as non-banking data science problems.

Interacted with clients in order to describe the provided solutions.

Languages

- Malayalam
- English
- Hindi
- Telugu
- Tamil