Dr. Virupaksha H S

Aspiring Data Scientist

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PROFESSIONAL EXPERIENCE

Centre of Excellence in Watershed Management, UAS Bangalore, Karnataka, INDIA — *Research Associate*

October 2022 - PRESENT

Conducting advanced research (with a fine scale) and train the participants in the multi-disciplinary fields of Watershed Management, Geoinformatics, Land Resource Inventory, Hydrology, Natural Resource Conservation. GIS programming in Python (arcpy library) for spatial (location) studies.

Department of Environment (Coastal Regulation Zone), Mangalore, Karnataka, INDIA — *GIS Engineer/Surveyor*

November 2021 - September 2022

Carrying out field verification of the proposed locations (for NOC), GIS maps preparation, SQL query for spatial analysis in GIS softwares.

Department of Post-Graduate studies & Research in Applied Geology, Kuvempu University, Shivamogga, Karnataka, INDIA — *Guest Lecturer*

November 2020 - October 2021

Taught theory and practical on topics of Remote Sensing & Geographic Information System (RS & GIS), Hydrogeology, QGIS, Basics of PostgreSQL

Karnataka Forest Department (Mangalore Circle – CCF Office), Mangalore, Karnataka, INDIA — *GIS Engineer*

June 2014 - March 2015

Carrying out field verification of the Reserve Forests, GIS maps preparation for NOCs, SQL query for spatial analysis in GIS softwares, training the field staff in GIS and GPS applications.

Dayananda Sagar College of Engineering (Civil Engineering), Bangalore, Karnataka, INDIA — *Junior Research Fellow*

August 2013 - June 2014

Carrying out field work of the ground water sampling and Electrical resistivity methods, GIS maps preparation for thematic layers, SQL

TECHNICAL SKILLS

- Python programming
- Data Science (CRISP-ML(Q))
- MLOps (CI/CD/CT)
- SQL queries
- Infographics
- Dashboards creation
- Spatial maps programming and automation
- Thematic maps creation

SOFT SKILLS

- Critical Thinking
- Problem Solving
- Adaptability
- Time management

TOOLS

- Jupyter notebook
- Google Collaboratory
- Tableau, Google data studio
- Streamlit
- ArcGIS, ArcGISpro, QGIS
- Advanced MS-Excel
- PostgreSQL

AWARDS / CERTIFICATES

- Certificate course in Data Science – 360DigiTMG
- ESRI certificates for ArcGIS & ArcGISPro online courses

LANGUAGES

- English, Hindi, Kannada

UDEMY ONLINE COURSES

- SQL for ArcGISpro
- PostgreSQL for QGIS

query for spatial analysis in GIS softwares.

EDUCATION

National Institute of Technology, Surathkal, Karnataka, INDIA — *Ph.D.*

July 2015 - February 2022

Research Methodology, Research Ethics, Critical Thinking, RS & GIS application in Groundwater studies, exposure to quality research.

Department of Post-Graduate studies & Research in Applied Geology, Kuvempu University, Shivamogga, Karnataka, INDIA — *M.Sc.*

August 2011 - July 2013

Earth Science & Resource Management, Geoinformatics for better planning of available resource utilization.

Sahyadri Science College (Autonomous), Kuvempu University, Shivamogga, Karnataka, INDIA — *B.Sc.*

2007 - 2011

Geology, Mathematics, and Computer Science combination

RESEARCH PUBLICATIONS

- https://doi.org/10.1080/10106049.2019.1624986
- https://link.springer.com/article/10.1007/s10653-019-00500-6
- https://www.springerprofessional.de/en/assessment-of-hydraulic-and-geoelectric-parameters-of-the-aquife/23566688

INTERESTS

- Chess
- Shuttle badminton
- Cricket
- Watching movies
- Learning new courses to update myself for present industry requirements
- Monsoon solo bike rides in western ghats of INDIA
- Trip to new places with friends