SHRADHA SHRESTHA

Data Analytics | Geospatial Intelligence | shradhashrestha57@gmail.com

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SUMMARY

- 3+ years of experience as Data Analyst with expertise in geospatial modeling, static and web visualization, and database management.
- Experienced in employing Python programming, SQL for data cleaning, data visualization, risk analysis and predictive analytics.
- Experience in querying data using Python, SQL.
- Experience in analyzing and manipulating large sets of data.
- Experience in creating reports from raw data to readable format for higher management, internal and external clients.

ACADEMICS

Rochester Institute of Technology, Rochester, New York   2017 - 2020
M.S. in Environmental Science (GPA: 3.68 out of 4.0)
Relevant Courses: Spatial Algorithm and Problem Solving, Regression Analysis, GIS applications

School of Environmental Science and Management (SchEMS), Pokhara University, Kathmandu, Nepal   2010 - 2014
B.S. in Environment Management (GPA: 3.8 out of 4.0)
Honor award: Dean's list of excellence award.

TECHNICAL SKILLS

- Programming Languages: SQL, Python (Numpy, Pandas, ArcPy, SciPy), Git.
- Cloud services: Microsoft Azure, Google Earth Engine.
- Geospatial: ArcGIS Packages and QGIS.
- Data Visualization: Graph, Tableau.
- Other: Minitab, SAS, SPSS, Cartography.

PROFESSIONAL EXPERIENCE

Role: GIS Technician, American Farmland Trust   Sep 2019 - Present
- Data wrangling, analysis and interpretation.
- Consolidate and integrate nationwide protected agricultural land database.
- Managed spatial dataset in Microsoft Azure.
- QA/QC of agricultural spatial dataset using Python for automation.
- Design web application, interactive maps, and story maps for visualization.
- Design and implement map template across various projects in the organization.
- Created project documentation, including design, development, and deployment.

Role: Knowledge Management, Monitoring and Evaluation Officer, SAHAS Nepal   May 2014 – May 2017
- Propose new quantitative analysis on various projects on Energy Consumption analysis, promotion program evaluation and anomaly detection, corporate with client managers and prepare the slides.
- Performed data cleaning, exploration implementing Python.
- Designing automated dashboards and data visualization to extract relevant and targeting market insights. Data classification using Python.

- Retrieved and analyzed data by writing complex ad-hoc SQL queries across large scale dataset. Managed data migration over different platforms.

Vanguard Cabinet, a URISA's initiative   2020 - 2023
- An advisory board of passionate, young geospatial professionals.
- Facilitated on mentorship subcommittee to match GIS mentor and mentee application

GIS and Data Intern, FracTracker Alliance   Jan 2019 – Jun 2017
- Studied groundwater contamination and air pollution due to hydraulic fracking in California and Colorado using geospatial modeling.
- Determining the current status of groundwater contamination in Colorado state

HONORS & AWARDS

Best Data Visualization Award, BrickHacks6 [link]	2020
Best Data Mining to help the Community (honorary mention), BrickHacks6 [link]	2020
Energy Conference Scholarship, EnergyPath at DeSales University	2019
Best Newbie Hacker, Women in Computing Hackathon (WiCHacks 2018) [link]	2018
RIT Merit Scholarship (75%)	2017
Netherlands Fellowship Program (NFP) for MSc. in Geo-information Science & Earth Observation at ITC University of Twente (*declined*)	2017
Full Merit Scholarship, SchEMS College, Pokhara University	2010