



# SURAJ SHARMA

## DATA ANALYST & MACHINE LEARNING SPECIALIST

PORTFOLIO

LINKEDIN

GITHUB

### LANGUAGES

- English - Fluent
- Finnish - Intermediate
- Nepali - Native
- Hindi - Native

### ACHIEVEMENTS

- Data Analysis in Business, Dataquest.io (January 2021).
- Intermediate SQL for Data Analysis, Dataquest.io (December 2020).
- Text Processing in Command Line, Dataquest.io (December 2020).
- API and Web Scraping in Python, Dataquest.io (December 2020).
- Exploratory Data Analysis, Coursera (April 2020).
- R Programming, Coursera (January 2020).
- Geospatial and Environmental Analysis, Coursera (May 2019).
- 100 Hours IT Training, ICAN (July 2013).
- Chartered Accountancy Professional [CAP-I], ICAN (August 2012).

## PROFILE

Suraj is a multitalented Data Analyst and Machine Learning Engineer who found intriguing ways to work with data throughout his diverse and long career. He is a proactive and efficient learner who grasps new concepts and technologies in no time. With his Bachelor's degree in Environmental Engineering, Suraj is eager to apply his hard-earned abilities to promote sustainability. Nevertheless, his universal skillset and can-do attitude help Suraj make a lasting impact in other fields.

## RECENT PROJECTS

### Weather-Accidents Analysis US

Python, Jupyter-notebook (Dask, Pandas, Plotly, HTML, Markdown)

Sourced data from Kaggle to analyze how specific weather attributes relate to the number of accidents.

### Spatial Interpolation in Water Runoff : Hydrology in Vietnam, Laos and Cambodia

R, hydrostremer, dplyr, rgdal

A Bachelor's thesis based on a historical dataset about water movement. The work consisted of error comparison on high- and low-resolution data within different interpolation methods

### Project Data Tidy

Python, jupyter-notebook, markdown, matplotlib, seaborn, plotly

Worked independently with three different datasets (one related to the environment and two related to businesses) to find missing values and correlations with heatmaps. Visualized the findings with Plotly.

### Web Scraping to Wiki

HTML, Python, BeautifulSoup

Independently completed the task of web scraping for further analysis.

## SKILLS

**Programming Languages:** C, C++, PHP, Python, R.

**Data Analysis:** Dask, Numpy, Pandas, Spark.

**Data Visualization:** Folium, Matplotlib, Plotly, Seaborn.

**Database Management:** PostgreSQL, SQL, SQLite.

**Machine Learning:** OpenCV, Scikit-learn, Streamlit, TensorFlow.

**Environmental Engineering:** Carbon footprint tracking, Geographical mapping, Geographic Information System (GIS) analysis, Life-cycle assessment.

**Web Development:** CSS, HTML, JavaScript, PHP.

**Other:** BeautifulSoup, Docker, GitHub, Microsoft Excel.

## EXPERIENCE

### Data Analyst & Machine Learning Specialist

Integrify | Helsinki, Finland | October 2020 - Present

- Demonstrated advanced proficiency in programming with Python and Object-Oriented Programming.
- Performed Data Analysis and Data Visualization on diverse and complex datasets.
- Worked with APIs and performed Web Scraping to create new datasets.
- Managed databases with SQL and PostgreSQL.
- Developed Machine Learning applications with supervised, semi-supervised, and unsupervised algorithms, and dwelled into Deep Learning and Computer Vision.
- Handled Continuous Integration and Continuous Deployment (CI/CD) of Machine Learning Models with GitHub Actions and Docker.
- Built web-based applications with Python and Streamlit to host Machine Learning models.

### Thesis Worker

Metropolia University of Applied Sciences | Espoo, Finland | August 2019 - January 2020

- Completed the prediction of runoff values with three different interpolation methods.
- Completed the conversion and analysis of low- resolution data model to high resolution.
- Analyzed the error propagation methods and determined goodness of fit.
- Conducted the variance analysis and study of the correlation between the variables.

### Project Worker

Metropolia University of Applied Sciences | Espoo, Finland | DURATION???

- Conducted unit testing on a project developed in the R-studio a senior lecturer.

### Cleaner

Braleva Kiinteistöpalvelut Oy | Espoo, Finland | July 2019 - August 2020

### GIS Assistant

Alternative Energy Promotion Centre | Lalitpur, Bagmati, Nepal | May 2019 - August 2019

- Collected spatial data required for the project.
- Developed informative maps as per field associated with them.
- Assisted in the decision-making process by analyzing the statistical data.

### Project Assistant

Nasa Engineering Consultancy | Chitwan, Nepal | December 2017 - January 2018

- Assisted in the design process.
- Contributed to field visits, supervision, and documentation.

### Teacher

Little Heaven English Boarding School | Chitwan, Nepal | February 2012 - August 2015

- Taught science and math subjects.
- Managed the test results from all the students at the school with spreadsheets.
- Contributed as replacement exam-coordinator on numerous occasions.

## EDUCATION

### B.Eng. in Environmental Engineering

Metropolia University of Applied Sciences | Vantaa, Finland | August 2015 - January 2020