



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 | 2019

- 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