

# SAGAR BHANDARI

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Recent civil engineering graduate with progressive experience in programming, GIS and transportation engineering. Aspiring to pursue Master's degree in Transportation Engineering from reputed institution.

## EDUCATION

NOV 2017 – APR 2022

**BACHELOR'S IN CIVIL ENGINEERING**, PULCHOWK CAMPUS

Full scholarship student (based on entrance rank)

Overall score: 73.5% (3.78 GPA based on *Scholaro*)

Specialization in GIS (88.8%) and Transportation (80.2%)

Transportation courses taken:

Transportation Engineering, I & II,  
Transportation Planning and Engineering,  
Traffic Engineering and Management

### Projects

- Study of alternative alignments of Kathmandu-Pokhara highway (capstone project)
- Collection of traffic data and design of traffic signal at busiest intersection in Kathmandu: Koteswor and Jatibuti
- Parking and pedestrian survey at different places in Kathmandu to analyse and suggest improvement techniques.
- Study of Tipper accidents in Nepal
- Bridge and road site survey at TU, Kritipur and design road and bridge in Civil 3D.
- Quantity and rate estimation of the designed road
- Topographical survey at TU, Kritipur and preparation of topographical map.
- Land use change analysis of Madhesh Pradesh, Nepal using MODIS data of last 20 years
- Remote Sensing analysis (PCA, classification, etc.) using sentinel data of Pokhara Valley

### Developed Struct Dote

- A free and easy structure analysis software for engineering students
- Won first prize in software category in LOCUS, the biggest event to showcase innovations by engineering students all over Nepal
- Got collaboration proposal from companies like Caltech Pvt. Ltd., Nepal

APR 2015 – APR 2017

**SCIENCE STREAM**, SAGARMATHA HIGHER SECONDARY SCHOOL

Full scholarship student (Top 5 in entrance exam) | 84.1% Aggregate

## SKILLS

- Civil 3D, Smart Road
- ETABS, SAP2000
- Python programming
- QGIS and SNAP
- MS Office (Word, Excel, PowerPoint, Project)
- AutoCAD and Sketchup
- HTML, CSS, JS (Basic)
- SQL (Basic)
- R (Basic)
- Leadership
- Problem solving
- Research and analysis
- Collaboration
- Time management

## EXPERIENCE

OCT 2018 – OCT 2022

**COFOUNDER**, ENGINEERINGDOTE

- Worked as data analyst, team manager and digital marketer
- Prepared questions and resources for engineering entrance preparation and developed web automation program to upload contents from text file to the backend
- Guided 5000+ students annually through online discussion and webinars (esp. during COVID pandemic)

MAY 2022 – PRESENT

**CIVIL ENGINEER**, MAGIC CUBE ENGINEERING

- Designs site and building plans, estimate and supervise construction works
- Works closely with contractors, workers and other engineers

MAY 2022 – PRESENT

**VOLUNTEER**, HARIHAR TEMPLE, PART TIME

- Assisted in design, estimation and supervision of temple gate
- Assisted in making master plan of temple site area
- Designed and supervised construction of 108 taps and ShivLings.

## ACTIVITIES

- Attended a seminar on “Professional Road Design: Challenges and Opportunities” organized by Smart CAD Academy
- Working on research paper titled “Shortening of Kathmandu-Pokhara Highway” as an extension of capstone project.
- Admin of Facebook page ‘Engineers Room’ which focuses on contents related to engineering
- GRE Score: 322 (166Q, 156V) | IELTS: 7.5