

# BIBEK SUBEDI

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Current Location:	Bharatpur, Nepal
Recent Educational Qualification:	B.E. Civil Engineering, <b>Fourth Year</b> (IOE Pulchowk Campus)
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## COMMITMENT

Dedicated Civil Engineering student with specialized expertise in **GIS Mapping**, **Data Analytics**, and **Infrastructure Modeling**. Experienced in high-stakes **Logistical Planning** and **Team Coordination** through extensive leadership roles. Highly committed to leveraging technical skills and leadership experience.

## RESEARCH AND PROFESSIONAL EXPERIENCE

### Research Cohort Member

Current

*Kathmandu Geo Lab*

- Conducting research on **Shear Wave Velocity ( $V_s$ ) prediction** using **Machine Learning (ML)** models for enhanced seismic hazard assessment.
- Utilizing advanced data analysis techniques to integrate geological, geotechnical, and geographical data for predictive modeling.

### Research Wing Correspondent

Jul 2025 – Present

*CESS-Nepal*

- Fostered a culture of **evidence-based decision-making** by guiding peers in research methodologies and report generation.
- Supported students in presenting and publishing their research in civil engineering.

### Vice President

Dec 2024 – Present

*MAPS Pulchowk (Mathematics and Physics Society)*

- Directed and managed large-scale academic events, including the Integration Bee, engaging over **500 student participants**.
- Demonstrated strong **Team Coordination** and organizational capacity in hosting institution-wide Olympiads and technical talks.

### Event Coordinator

Nov 2024 – Jan 2025

*Civil Engineering Hackathon (CESS Nepal)*

- Designed and led the first Civil Engineering Hackathon to promote the use of **programming tools** for optimizing design precision.
- Bridged the gap between civil engineering and programming, modeling the integration of technology with core principles.

### IOE Entrance Mentor

2021 – Present

*Clamphook Academy*

- Prepared over **2,000 students annually**, honing strong communication and simplified teaching skills vital for technical outreach.

## RELEVANT SKILLS AND CERTIFICATES

### Technical Skills for Assessment & Planning:

- Geospatial Analysis (GIS):** Proficient in Arc GIS, SWAT, and Earth Google Engine for mapping, site surveying, and resource allocation.
- Modeling & Design:** AutoCAD, ETABS, Revit, HEC-RAS, and **Python-based FEA** for structural analysis and design verification.
- Data Analytics:** Practical experience with **Python** (for data processing/predictive modeling), C programming, and Advanced Ms-Excel.

### Projects Demonstrating Applicable Expertise:

- **Structural Health Monitoring (SHM):** Developed analysis for structural health monitoring, including **anomaly detection**, relevant for post-damage structural integrity checks.
- **Accident Data Analysis in Kathmandu:** Utilized Python to analyze municipal data and identify trends—methodology transferable to property loss assessment.
- **Flood Mapping of Karnali River :** Ongoing project utilizing **GIS Software** and **Python** for environmental modeling.

**Leadership and Volunteer Experience:**

- **Nepal Scout (2014 – 2019):** Extensive background in community development, demonstrating discipline and social commitment.
- **Hult Prize Startup Mentor:** Focused on creating sustainable, scalable business models for social challenges.
- **Soft Skills:** Adaptability, Team Coordination, Logistical Planning, Analytical Skills.

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**CERTIFICATIONS AND TRAINING**

- **Civil Engineering Hackathon Coordination** — CESS-Nepal — 2025
- **Research Colloquium Sub-Coordinator** — CESS-Nepal — 2025
- **From Scratch to Structure: A Complete Building Design and Analysis Workshop** — CESS-Nepal — 2024
- **Autodesk Certified Professional: AutoCAD for Design and Drafting Exam Prep** — Coursera — 2023
- **REVIT Workshop** — CESS-Nepal — 2024
- **Software Fellowship** — LOCUS — 2025

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**EDUCATION**

<b>Bachelor in Civil Engineering</b> <i>IOE Pulchowk Campus, Institute of Engineering (IoE), TU</i> Pulchowk, Lalitpur	<i>2021 – Present</i>
<b>+2 Science</b> <i>SOS Hermann Gmeiner Secondary School</i> Bharatpur	<i>2019 – 2021</i>
● <b>GPA 3.78/4.0</b>	