Dhruv Bhardwaj

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Summary _____

• A goal-driven, time-bound, and enthusiastic person having a deep interest in the field of Geotechnical Engineering. Completed M. Tech in Geotechnical Engineering from Delhi Technological University (DTU), Delhi in 2022. Always keen to learn new things relevant to the domain and looking for an opportunity to contribute towards it.

Education _____

Delhi Technological University (DTU) M. TECH IN GEOTECHNICAL ENGINEERING • 8.6 out of 10	Delhi, India 2020-2022
ADGITM B. TECH IN CIVIL ENGINEERING • 8.07 out of 10	Delhi, India 2015 - 2019
D. A. V. Public School, Rohini GRADE 12 th • 87.6 percent	Delhi, India 2014 - 2015
D. A. V. Public School, Rohini GRADE 10TH • 8.8 out of 10	Delhi, India 2012-2013

Professional Experience

Avaada Energy Private Limited

GRADUATE ENGINEER TRAINEE

• Developed plant layouts and pile layouts for small and large-scale solar utility plants. Successfully ensured repowering of four solar power projects.

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EDUCATION ASSOCIATE

- Worked as an education associate for subjects like Geotechnical Engineering and Surveying.
- Recorded video lectures for the aspirants of prestigious engineering entrance exams like GATE and ESE.

Wazirabad Bridge Project DTTDC

TRAINEE

Delhi, India July 2018-Aug2018

Noida, India

July 2022- Present

Remote/Online

April 2021-June 2021

- Studied the planning and execution of the bridge and installation of various important parts like expansion joints, cables, etc. Also, studied the quality control of concrete required for bridge making.
- Gained practical insight on the erection of girders for obtaining the deck of the bridge.

Academic Projects _____

Landslide Susceptibility Mapping using GIS-based Frequency Ratio and Shannon Entropy for Chamoli district, Uttarakhand, India. The project was done as a part of my master's thesis work.

Project Description: Prepared landslide susceptibility maps for the Chamoli district in Uttarakhand by applying two statistical models namely Frequency Ratio and Shannon Entropy by taking ten landslide causative factors (Elevation, Slope, Aspect, Curvature, Topographic Wetness Index, Stream Power Index, Distance to Roads, Distance to Lineaments, Distance to River and Lithology). Also compared the results generated by the applied models by the computing area

under the curve (AUC) of the receiver operating characteristic curve (ROC). Submitted research publication and awaiting revision. The results were mapped using ArcGIS software learned before the research for an efficient and seamless proceeding of the research.

To study the feasibility of Carbon Fiber Reinforced Concrete. Project was done as a part of the major project of **B. Tech Project Description:** It is a technique of reinforcing concrete using carbon fibers, making the concrete stronger, improving its flexural strength of nature, and improving its compressive strength characteristics. In this technique, concrete is reinforced by carbon fibers in the form of small chips.

To study the feasibility of Basalt Fiber in Concrete. The project was done as a part of the minor project of B. Tech **Project Description:** It is the new technique of reinforcing concrete using basalt fiber and hence, making the concrete stronger, more resistant to chemical reactions of nature, and improving its tensile characteristics. The use of this technique also improves the fire-resisting properties of concrete. In this technique, concrete is reinforced by basalt fiber in chopped or continuous wire form.

Technical Strengths

Software: AutoCAD, ArcGIS, Geostudio Slope/W, Google Earth, MS Office, PLAXIS 2D, Prima Vera P6, and QGIS. Languages: English (fluent), Hindi (Native)

Certifications ____

2021	Geographic Information Systems (GIS)
2024	

- 2021 Prima Vera P6
- 2020 Mastering bitumen for better roads and innovative applications

Coursera Diginique Tech labs Coursera

Publications _____

- Saha S, Saha A, Hembram TK, Mandal K, Sarkar R and **Bhardwaj D.** 2022. "Prediction of spatial landslide susceptibility applying the novel ensembles of CNN, GLM and random forest in the Indian Himalayan region". *Stochastic Environmental Research and Risk Assessment.*
- Saha S, Sarkar R, Roy J, Bayen B **Bhardwaj D** and Wangchuk T. 2022. "Application of RBF and MLP Neural Networks Integrating with Rotation Forest in Modeling Landslide Susceptibility of Sampheling, Bhutan". *Impact of Climate Change, Land Use and Land Cover, and Socio-economic Dynamics on Landslides,* pp. 221-225.
- Sarkar R, Saha S, Roy J and **Bhardwaj D.** 2022. "Measuring Landslide Susceptibility of Phuentsholing, Bhutan Using Novel Ensemble Machine Learning Methods".*Impact of Climate Change, Land Use and Land Cover, and Socio-economic Dynamics on Landslides,* pp. 197-220.
- Saha S, Sarkar R, Roy J, Saha TK, **Bhardwaj D** and Acharya S. 2022. "Predicting the Landslide Susceptibility Using Ensembles of Bagging with RF and REPTree in Logchina, Bhutan".*Impact of Climate Change, Land Use and Land Cover, and Socio-economic Dynamics on Landslides,* pp. 275-298.
- Thapa G, Sarkar R, **Bhardwaj D** and Dorji L. 2022. "Slope Stabilization Using Soil Nails, Practice and Construction Realities: A Case Study on the Construction of Soil Nailed Wall Along Phuentsholing-Thimphu Highway, Bhutan".*Impact of Climate Change, Land Use and Land Cover, and Socio-economic Dynamics on Landslides*, pp. 453-470.
- Upadhyay A, Pandey A, Singh C and **Bhardwaj D.** 2020. "To study feasibility of Carbon Fiber in Concrete". *International Research Journal of Engineering and Technology*, pp. 7161-7164.
- Upadhyay A, Pandey A, Singh C, Kataria V. and Bhardwaj D. 2019. "To study feasibility of Basalt Fiber in the Concrete". International Research Journal of Engineering and Technology, pp. 793-794.
- Saha S, Saha A, Roy B, Sarkar R, Kundu B and **Bhardwaj D.** 2022. "Integrating the Particle Swarm Optimization (PSO) with machine learning methods for improving the accuracy of the landslide susceptibility model." *Earth Science Informatics*, pp. 2637-2662.

Awards and Scholarships _

- 2021 An active part of various research publications in addition to my research topic.
- 2021 Selected for reputed online teaching platforms like Unacademy and Chegg as a doubt-solving expert.
- 2020 Qualified Industrial Proficiency Test for Engineers (IPATE).
- 2020 Qualified Graduate Aptitude Test in Engineering (GATE).
- 2020 Ranked among the Top 50 students in GGSIPU (VI semester)

Extracurricular Activities

- 2018 Member of Creative Team of NEEV for organizing "SPECERE"
- 2017 Participated in Mortar Master in STHAPIT, the annual Civil Engineering fest.
- 2016 Trainer of TACKLE, Self Defense Society of NIEC
- 2015 Member of NEEV, Civil Engineering Society of ADGITM

Referees _____

 Dr. Raju Sarkar Professor, Department of Civil Engineering, Delhi Technological University ✓ Rajusarkar@dce.ac.in 	+(91)- 7678-120-434
Dr. Anil Kumar Sahu Professor, Department of Civil Engineering, Delhi Technological University ▼ sahuanilkr@yahoo.co.in	+(91)-8383-863-884
Dr. Surendra Kumar Yadav Project Director, Department of Environmental Conservation, SEHAT, India ■ Skyccsu@gmail.com	+(91)- 8010-513-998