



Vishnu Himanshu Ratnam Pandey

Curriculum vitae "Ai fini della pubblicazione in ottemperanza all'art. 15 del D. Lgs. 33/2013"

● ABOUT ME

Research Scholar (Engineering Geology)

● EDUCATION AND TRAINING

13/07/2021 – CURRENT Varanasi, India

PH.D. Banaras Hindu University, Varanasi, India

Field of study Engineering Geology |

Thesis Hill Slope Stability of Baspa Valley: A Combined Empirical, Numerical, and Machine Learning Approach

01/08/2018 – 30/07/2020 Varanasi, India

MASTER OF SCIENCE Banaras Hindu University, Varanasi, India

Field of study Geology | **Final grade** 8.41 | **Thesis** Assessment of Karmi Landslide Zone, Bageshwar, Uttarakhand, India

01/07/2015 – 30/06/2018 Varanasi, India

BACHELOR OF SCIENCE (HONS.) Banaras Hindu University, Varanasi, India

Field of study Geology, Physics, Mathematics | **Final grade** 7.5/10

● WORK EXPERIENCE

01/07/2020 – 10/07/2021 Dehradun, India

ENGINEERING GEOLOGIST KAINGEOTECH

● DIGITAL SKILLS

Rocscience (RocData, Dips, RocPlane, RocTopple, Slide, Swedge and RS2) | UDEC | QGIS: basic level | Python Language - Basic knowledge | CloudCompare Software | Google Earth Engine (GEE) / Google Earth Pro | FLAC SlopeW | Beginner Adobe Illustrator | RocFall | dBTrait | Corel draw Graphics

● PUBLICATIONS

2022

[Deep learning models for large-scale slope instability examination in Western Uttarakhand, India](#)

Pandey VHR, Kainthola A, Sharma V, et al. (2022) Environ Earth Sci 81:487

Link https://drive.google.com/file/d/1vDx9zLK-KyVQcpZ_4L6KFqeA2z6NYECL/view?usp=sharing

2021

[Hill slope stability examination along Lower Tons valley, Garhwal Himalayas, India](#)

Kainthola A, Sharma V, Pandey VHR, et al. (2021) Geomatics, Natural Hazards and Risk 12(1):900–921

Link https://drive.google.com/file/d/1lkSmlkx4il2SPECpvo6gfWPYfbD0_EZ/view?usp=drive_link

2023

[Engineering geological characteristics and failure mechanics of Jure rock avalanche, Nepal](#)

Panthee S, Dulal S, Pandey VHR, et al. (2023) Geoenvirom Disasters 10:25

Link https://drive.google.com/file/d/1UzOD_z1ueJT7FuBFXodNXydESQK129Rh/view?usp=sharing

2020

Assessment of Karmi Landslide Zone, Bageshwar, Uttarakhand, India

Tiwari VN, Pandey VHR, Kainthola A, et al. (2020) 96:385–393.

Link <https://drive.google.com/file/d/1kDYFrJcrjXxDH6QhW8xbJdT2-TK34BW4/view?usp=sharing>

2022

Numerical Analysis of a Collapsed Tunnel: A case study from NW Himalaya, India

Srivastav A, Pandey, VHR, Kainthola A. et al. (2022) Indian Geotech J 52, 132–144

Link <https://drive.google.com/file/d/1XIDhSpl2JPctvhuvDhOarFB0Fp9cY-3m/view?usp=sharing>

2022

Physico-Mechanical Characteristics of Vindhyan Sandstone, India

Chaudhary V, Srivastav A, Pandey VHR, et al. (2022) J. Inst. Eng. India Ser. D 103:295–302

Link <https://drive.google.com/file/d/1TKmkMtkZoiKBDOP2PVPbo34fzy1JU4Wg/view?usp=sharing>

2024

Discontinuity-Induced Partial Instability in Markundi Hills, Sonbhadra, Uttar Pradesh, India

Yadav V, Kainthola A, Pandey VHR et al. (2024) Geotech Geol Eng

Link https://drive.google.com/file/d/1cSTH1wbnZSJYb_W-eQpns_JjUG81LOz/view?usp=sharing

2023

Stability Assessment of Markundi Hills Using Q-slope, SMR and Simulation Tools

Kainthola A, Pandey VHR, et al. Landslides: Detection, Prediction & Monitoring. Springer, Cham

Link <https://drive.google.com/file/d/1ByGiSnAPLEchf6oVeKU9dOQTsfASij9Q/view?usp=sharing>

2022

Empirical and Numerical Evaluation of a Cut Slope Near Rishikesh, India

Pandey et al. (2022) Lecture Notes in Civil Engineering, vol 228. Springer, Singapore.

Link <https://drive.google.com/file/d/1WfOCaUW2BPhLNYzk54OWIHim2brlN18e/view?usp=sharing>

2022

Recent Developments in Machine Learning and Flyrock Prediction

Bhatawdekar et al. (2022) Lecture Notes in Civil Engineering, vol 228. Springer, Singapore.

Link <https://drive.google.com/file/d/1xPZ53wXPV07uAs3OBo9Yi6vmdOKRaqO4/view?usp=sharing>

● HONOURS AND AWARDS

2024

Internation Visiting Student Program – Banaras Hindu University, Varanasi, India

Visiting Researcher, Department of Earth Sciences, Sapienza University of Rome, Italy (March 2024 – August 2024)

2020

L. Austing Weeks Undergraduate Grant – American Association of Petroleum Geologist (AAPG), USA

● PROJECTS

08/2018 – 05/2019

Application of Very Low Frequency Electromagnetic (VLF-EM) Method in Shallow Subsurface Conducting Structure

Minor Project

Link https://drive.google.com/file/d/1azWNIRcsIOo_bODKVgy8bfjzna-r9NYJ/view?usp=sharing

● **ONLINE COURSES AND CERTIFICATES**

04/2022

Programming for Everybody (Getting Started with Python)

An online course by **University of Michigan (USA)** on the Coursera platform.

Link <https://www.coursera.org/account/accomplishments/records/KGM2TUS3GHRX>

10/2020

Python Programming: A Concise Introduction

An online course by **Wesleyan University (USA)** on the Coursera platform.

Link <https://www.coursera.org/account/accomplishments/records/JKX6QJ2Q5HPN>

05/2020

Introduction to Programming with MATLAB

An online course by **Vanderbilt University (USA)** on the Coursera platform.

Link <https://www.coursera.org/account/accomplishments/records/EETHXB67BTJN>

Autorizzo il trattamento dei miei dati personali ai sensi del Decreto Legislativo 101/2018 e dell'art. 13 GDPR (Regolamento UE 2016/679) ai fini della ricerca e selezione del personale.

Vishnu Himanshu Ratnam Pandey