

NISHA POKHRIYAL

Assistant Professor

CONTACT

☎ 9997107408

✉ nishapokhriyalv12@gmail.co

📍 Block C, Lane No. 1D,
Saraswati Vihar, ajabpur
khurd Dehradun - 248121

EDUCATION

- M.Tech in Computer Science & Engineering from HNB Garhwal University, completed in 2021
- MCA (Master of Computer Applications) from HNB Garhwal University, completed in 2015
- B.Sc (Bachelor of Science) from HNB Garhwal University, completed in 2012
- Intermediate (12th) from SVMIC Srikot Ganganali, completed in 2009
- High School (10th) from SVMIC Srikot Ganganali, completed in 2007

SKILLS

- Python, DS & Algo, AI/ML, Core Java, .NET, HTML, JS, jQuery, Data Analysis, Cloud Computing, DBMS, C, C++

WORK EXPERIENCE

ASSISTANT PROFESSOR

Women Institute of Technology (WIT), Dehradun
Aug 2025 – Present

- Teaching DBMS, Python, and C Programming to B.Tech and BCA students
- Supporting curriculum development and student mentoring

THDC Institute of Hydropower Engineering & Technology, Tehri

Mar 2025 – Jul 2025

- Delivered lectures in Python, Data Structures, and Machine Learning
- Designed course materials, assignments, and assessments for engineering departments

Maharaja Agrasen Himalayan Garhwal University (MAHGU)

Oct 2024 – Mar 2025

- Taught Computer Applications and mentored students
- Developed academic content and learning resources

LAB ASSISTANT

University of Petroleum & Energy Studies (UPES)
Sep 2017 – Sep 2018

- Provided technical support in computer labs
- Ensured smooth lab operations and student assistance

DATA ENTRY OPERATOR

Kendriya Vidyalaya Srinagar SSB (IKYA – Quess Corp)
Jun 2016 – Aug 2017

- Maintained accurate records and performed data entry tasks

PROJECTS

Job Portal Development using .NET Technology

- Designed and implemented front-end and back-end modules
- Developed as part of industrial training

CERTIFICATIONS

- SAP SCM Training 6.0 – Zenith ERP Technology, 2017
- Industrial Training – CMC Academy (Tata Enterprise), 2015
- Advanced Diploma in Software Technology – CCT, 2010–11

LANGUAGES

- English
- Hindi

RESEARCH PUBLICATIONS

1. AI-Driven Energy Optimization for Virtual Machines in Cloud Computing, Springer, 2025

→ Applied ML, DL, and RL for energy-efficient cloud resource management

2. A Taxonomy of Explainability Techniques in AI, Springer, 2025

→ Comparative analysis of XAI models: LIME, SHAP, saliency maps

3. Power Aware Scheduling of Virtual Machines Using Soft-Computing Techniques, PowerTech Journal, 2025

→ Used Genetic Algorithms, Fuzzy Logic, and Neural Networks for VM scheduling

4. Survey on Crime Data Analysis Using K-Means Clustering, IJAST, 2020

Conducted research on crime data analysis using machine learning techniques, particularly K-Means clustering, to identify crime patterns and predict trends for enhanced public safety.