



# Inviting applications for (Vritika) Training and Skill Internship Internship Scheme 2023 on Development of AI/ML Techniques for Biometrics and its Applications: A comprehensive internship

Sponsored by: DST-SERB – Accelerate Vigyan – Training and Skill Internship (Vritika)

(File No. AV/VRI/2023/0098)

**Number of internships: 05 (only PG and UG students)**

**Venue: PDEU Gandhinagar**

**Mode: Offline (in person)**

**Duration: 4 weeks**

**11/12/23 - 07/01/24**

About the Institute

Pandit Deendayal Energy University (PDEU) formerly Pandit Deendayal Petroleum University (PDPU) has been established by Gujarat Energy Research and Management Institute (GERMI) as a Private University through the State Act enacted on 4th April, 2007. The 100 acre campus of PDEU is located in Gandhinagar, which is the capital city of Gujarat and located 23 km North from Ahmedabad. PDEU is recognized by UGC under section 2(f) and accredited by NAAC A++ Grade. School of Technology (SoT) intends to focus on technological education, research and service that anticipates, and meets, the need of tomorrow's world. It is expected that engineering graduates from School of Technology will care about issues that technology can make difference whether these issues are health, security, economic well-being or sustainability of world and values. The School is to provide national and international Undergraduate, Postgraduate and Doctoral education.

'Vritika' is a program from Science and Engineering Research Board (SERB) to groom students (primarily from Universities, Colleges, Private Academic Institutions, and newly established Institutes) in their scientific career pursuits by developing dedicated research skills in selected areas/discipline/fields of Science and Engineering through Training and Skill Internship. This program would facilitate the young talent to choose a career path in Science and Technology, at a later stage. The program is meant to support regular PG and UG 4th-year level students who are having a strong orientation towards scientific and engineering research and are pursuing their degree from University / Institution within India (primarily from universities, colleges, private academic institutions) in the fields of Science and Engineering and having an interest in scientific research.

About the Vritika

## Program Objectives

- ✓ To provide platform for young interns to understand and learn the implementation of various biometrics applications
- ✓ To learn and develop AI/ML algorithms to furnish viable biometric traits, like iris, palmprint, fingerprint, knuckles etc.
- ✓ To provide hands-on training to the participants on the processing and feature extraction, identification of biometrics images, computer vision applications.
- ✓ To help young researchers to unveil the theoretical and practical knowledge of AI techniques for biometrics and its applications.

## Interns - Eligibility criteria

- ✓ Students pursuing their regular **Masters (PG)** degree in relevant branches of Engineering (ECE/EEE/CSE/ICT/AI/ML/IoT/ Any other relevant field) or in the final year of their regular **Bachelors (UG)** degree in relevant branches of Engineering (ECE/EEE/CSE/ICT/IT/Any other relevant field)
- ✓ The intern should have basic understanding of programming language, preferably any of the C/C++/python/MATLAB
- ✓ The applicants must produce a '**Recommendation Letter**' from their Supervisor/Head of the Department/Head of the Institute indicating their association with the institute and '**No Objection Certificate (NOC)**' for participation in the Internship programme, if selected.

## Registration Details and Selection Process

- ✓ Registration Link - <https://forms.gle/UUjHy5WgY7dXCS9K6>
- ✓ There is **NO REGISTRATION FEE** for the participants.
- ✓ The program is limited to **05 students** only.
- ✓ Please fill the Google form along with the requested details and other supporting documents including the NOC letter latest by Friday, 8th December, 2023.
- ✓ The selection of the eligible PG and UG students will be done based on the recommendations of the duly constituted Selection Committee of the host institute.
- ✓ Selection of interns are based on the sole discretion of the selection committee and recommendations from the selection committee is final.
- ✓ Only selected candidates will be informed by email, therefore the candidates must provide valid E-mail IDs.
- ✓ The selected candidates will have to acknowledge and accept the offer for participating in the Training and Skill Internship through return email within 24 hrs, failing which the waitlisted candidates may be called for the Training and Skill Internship.

## Nature of support and other terms & conditions

- ✓ The supervisor to whom the interns are assigned would be assigning them tasks/assignments as per the research modules designed.
- ✓ The intern should work accordingly and prepare a work report to be submitted after completion of the internship.
- ✓ Interns not completing the work within the requisite period will not be issued any certificate.
- ✓ The IPR of the research work will be reserved by the institute which cannot be used by the intern without permission of the concerned authority.
- ✓ Hostel accommodation with catering facilities and travel by train may be provided to the candidates (The participating students will be eligible for TA reimbursement for their journey to the host institute from their hometown/home institute, both ways, as per the norms).
- ✓ No stipend will be provided for the internship.

Event Organizer

**Dr. Ritesh Vyas**

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**PDEU** PANDIT DEENDAYAL ENERGY UNIVERSITY  
Formerly Pandit Deendayal Petroleum University (PDPU)

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