Atal Bihari Vajpayee-Indian Institute of Information Technology and Management

(An Institute of National Importance, Ministry of Education, Govt. of India)

INVITING APPLICATION FOR VRITIKA RESEARCH INTERNSHIP UNDER SERB ACCELERATE VIGYAN SCHEME

on

APPLICATIONS OF MACHINE LEARNING IN INFORMATION AND CYBERSECURITY

(5th August to 4th September, 2024)

About the Institute

Atal Bihari Vajpayee-Indian Institute of Information Technology and Management Gwalior (ABV-IIITM Gwalior) is an apex Information Technology (IT) and Management Institute, established by the Government of India. ABV-IIITM Gwalior has been declared an Institute of National Importance. The Institute strives to become a world-class Institution that endeavors to carve young minds through teaching and research and develop them as tomorrow's leaders. At present Institute has five departments.

About the Dept. of Computer Science and Engineering (CSE)

Following the creation of departments in the Institute, the Department of Computer Science and Engineering was established in August 2022. Along with the UG program, the department offers a postgraduate program in the field of Information Security. The students are encouraged to carry out projects in niche areas including Information Systems, Computer Vision, Computer Networks and Software Engineering, as well as specializations in emerging areas of importance such as cloud computing, artificial intelligence, blockchain, machine learning and data analytics. For more details about the department, kindly visit the link: **CSE**

About Vritika

VRITIKA' is the call for initiation and practice in science through Training and Skill Internship. This program aims to provide opportunities to promising PG students from universities and colleges to get exposure and hands-on research skill development experience. These internships will primarily be facilitated by organizations/ institutions/ laboratories of national importance. For further details, visit the links: **SERB Vritika**

Program Objective

This internship will provide an opportunity to learn the fundamentals of cybersecurity and the applications of machine learning in this domain. The participants will have research and development exposure to the state-of-the-art in the topics of cybersecurity, intrusion detection, malware analysis, secure cyberinfrastructure, data hiding techniques, anonymization, penetration testing for network vulnerabilities, blockchain etc. Approximately 50% of the total internship time will be allocated to hands-on training.

Eligibility Criteria

• Regular UG (final year)/MTech/M.E./M.S/PhD students pursuing their degree in the area of CSE/IT/ECE or any relevant branch within India are eligible to apply.
• The applicants must produce a letter of authentication from their Supervisor/Head of the Department/Head of the Institute indicating their association with the Institute and a No Objection Certificate (NOC) on the institute/university letterhead for allowing their student to undergo training in the workshop if selected.

Nature of Support and Other Terms and 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.
• The IPR of the research carried out during internship 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 as per the SERB norms.
• Selected candidates are required to attend the program physically. 100% attendance is mandatory.
• The intern should abide by the rules and regulations of the institution and laboratory protocols.

Registration Detail

• The interested candidate shall apply for the internship program by filling out the following Google Form: **https://forms.gle/iHGtsxn6sxv5cN1W7**. Registration form with the requested details, scanned copy of the certificates, letter of authentication, and No Objection Certificate (NOC) can be uploaded through the link mentioned above.
• A maximum of 05 interns will be selected based on the recommendation of the selection committee.
• The selected interns must acknowledge and accept the offer by email within 48 hours, failing which the waitlisted candidate will get the offer.

NOC TEMPLATE

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• **NO REGISTRATION FEE**
• **LAST DATE OF REGISTRATION: 31-JULY-2024**