

About the Internship

The internship program is designed for understanding and implementing AI and Machine Learning (ML) techniques in different fields. The applications of these techniques are quite broad including areas of engineering, business and medicine. With the growing applications of AI/ML, it is important for engineering UG/PG students and faculty to gain a first hand experience at implementing the AI/ML techniques on different projects. The internship will provide the participants with an in-depth understanding of various AI and Machine Learning Techniques and their programming implementation. The interns will be working on different projects that further enhance the realization of these techniques.

Course Contents

- ❖ Introduction to Artificial Intelligence and Machine Learning
- ❖ Python - Introduction & Evolution, Distributions and IDEs, Packages & Modules Installing Anaconda, Data Types Python - Variables Lists, tuples, dictionaries, Sets, Files I/O Database Handling Dictionaries CSV, JSON, XML Handling, Numpy and Pandas Library for Data Processing Machine Learning Algorithms
- ❖ Machine Learning – Regressions, Regularization, Classification, Active Learning, Kernels, Support Vector Machines, Model Selection, Boosting, Margin and Complexity, Clustering, Hidden Markov Models, Bayesian Networks
- ❖ Neural Networks, Special Neural Networks, Convolution Neural Networks, Deep Learning
- ❖ Fuzzy Systems, Design and Applications.
- ❖ Machine Learning Practice with Python
- ❖ Case Studies and Industry practices

Internship Application Process

Applicants are advised to follow the given instructions while registering for the Summer Internship Program.

Registration Fees

- UG Students Rs. 10000/-
- PG students/PhD Rs. 11000/-
- Faculty Rs. 12000/-

Note: An additional 18% GST is to be included at the time of payment.

Payment mode

Demand Draft:

Demand draft (DD) payable at Jaipur, in name of :
Registrar (Industrial Consultancy Cell), MNIT Jaipur

NEFT/IMPS:

Registrar (ICC), MNIT Jaipur
Account No. 676801081625
IFSC CODE: ICIC0006768 (ICICI BANK, MNIT)

Registration Form Details

After fee submission, the applicant must register themselves by submitting details on <https://goo.gl/forms/KFuAif7PCuTBvj942>.

Further details of the internship and instructions for filling the form may be found on <https://ramanlab.wordpress.com/>

The applicant may also mail the filled registration form (given) with the appropriate requirements to the address of correspondence mentioned.

All registration forms must be received by 20th April, 2019. Registration fee is non-refundable.

The selection for the internship will be on '*first come first served*' basis for the limited **30 seats**. The confirmation of the selection to attend the course will be emailed by the mentioned date.

For further details about the course, contact ramanlabmnit@gmail.com .

Registration Form

Summer Internship Program
on

Artificial Intelligence & Machine Learning

Malaviya National Institute of Technology, Jaipur
20th May, 2019 – 5th July, 2019

Name: _____

Category (UG/PG/Faculty): _____

Semester & Department: _____

Specialization (PG/Faculty): _____

Institute: _____

Mailing Address: _____

Phone (M): _____ (O) _____

Email: _____

Accommodation required?

Yes	No
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(Please indicate one)

Registration fee Details:

Mode of payment (DD or NEFT/IMPS): _____

Transaction No./ DD No. _____

Amount Paid: _____

The above information is accurate to the best of my knowledge at the time of completion of the form. If selected, I agree to abide by the rules and regulations of the program and MNIT Jaipur.

Date: _____ **Candidate's Signature**

The applicant is permitted to participate in the above program for the mentioned duration.

Date: _____ **Signature of HoD with Seal**

About MNIT

Malaviya National Institute of Technology (MNIT), Jaipur is one of the NITs established by Ministry of Human Resource Development, Government of India. The Institute, earlier known as MREC, was established in 1963 as a joint venture of the state and central Governments. Later in 2002, the college was given the status of National Institute of Technology and on August 15, 2007, proclaimed Institute of National Importance through Act of Parliament. MNIT campus spreads over 325 acres of lush green area in the prime location of Jaipur city. At present, in addition to research, consultancy and developmental activities, the Institute offers UG and PG (M. Tech./M.Sc. & Ph.D.) level courses to about 5000 students in almost all leading fields of engineering, technology, management and sciences.

Department of Electrical Engineering

The Electrical Engineering Department is one of the oldest departments at MNIT Jaipur. Currently, the department offers undergraduate courses in Electrical Engineering along with postgraduate courses in Power Systems, Power Electronics and Power System Management. The research domains of the department span over various areas of Electrical Engineering. The department continually provides collaborative opportunities with National/International Universities, resulting in a global exposure in research

Reaching MNIT

Jaipur is well connected by road, rail and air services. MNIT is situated on Jawaharlal Nehru (JLN) Marg and is about 9 kms from Main-railway station/ Central Bus Stand (Sindhi Camp) of Jaipur and 6km away from the Airport.

ORGANIZING COMMITTEE

Patron

Prof. Udaykumar Yaragatti
(Director, MNIT, Jaipur)

Coordinator

Dr. Rajesh Kumar
Professor, Department of Electrical Engineering
MNIT Jaipur

General Information

Accommodation and travelling expenses are to be borne by the participants. Limited accommodation on actual charges may be available at MNIT Hostels. A request for hostel accommodation will need to be made in advance. The participant will not be paid any TA/DA. The hostel charges will approximately be Rs 200/day (tentatively). It is to note that limited seats are available in the course (*30 seats*).

Important Dates

Completed Registration Form	20 th April, 2019
Confirmation of Selection	1 st May, 2019
Internship Start Date	20 th May, 2019

Address for Correspondence

Dr. Rajesh Kumar
Malaviya National Institute of Technology
J. L. N. Marg, Jaipur-302017 (Rajasthan)
Phone: +91-9549654481
Email: ramanlabmnit@gmail.com

Summer Internship Program 2019

**Malaviya National Institute
of Technology**

**Artificial Intelligence &
Machine Learning**

20th May, 2019 – 5th July, 2019



Organized by:

Department of Electrical Engineering
Malaviya National Institute of Technology
Jaipur 302017, Rajasthan India
www.mnit.ac.in