Short Term Course on Recent Advancements in Natural Language Processing and Understanding (RANLPU 2020)

Objectives of the course:

This course aims to provide learners an understanding of leading trends and systems in natural language processing and understanding. Text is one of the dominant sources of information across the world. Text analytics plays an important role in discovering patterns and information from textual data. The techniques for text analytics involve complex algorithms from natural language processing and machine learning. It will cover major techniques for mining and analyzing text data to discover interesting patterns, extract useful knowledge, and support decision making. The techniques will include Sentiment Analysis, Text Classification, Summarization, Word Embedding, Sarcasm Detection and many more. The objective of this course is to make participants understand the concepts of morphology, syntax, semantics and pragmatics of the language and teach them to recognize the significance of pragmatics of natural language understanding. The objective of the course work is also to provide the theoretical fundamentals coupled with practical knowledge of pattern recognition. The hands-on training session will be conducted using Python. At the end of the session, learners will be able to describe the application based on natural language processing and to show the points of syntactic, semantic and pragmatic processing.

Resource Person

Dr. Asif Ekbal, CSE, IIT Patna

Dr. Sriparna Saha, CSE, IIT Patna

Dr. Jyoti Prakash Singh, CSE, NIT Patna

Dr. Manish Shrivastava, CSE, IIIT Hyderabad

Dr. Atul Gupta, CSE, IIITDM Jabalpur

Dr. Ayan Seal, CSE, IIITDM Jabalpur

Course contents

- Language Modelling
- Machine Learning Algorithms
- Text Classification
- Text Processing with NLTK
- Natural Language Syntax and Parsing and CYK Algorithm
- Sentiment Analysis
- Word Embedding
- Text Processing with CNN
- Text Processing using RNN
- Attention Model
- Text Clustering
- Embedding Techniques and CNN
- Dialog Systems
- Chat-bot development
- Sarcasm Detection
- Summarization Systems

Course Coordinators

Dr. Ayan Seal / Dr. Atul Gupta
PDPM Indian Institute of Information Technology,
Design and Manufacturing, Jabalpur,
Dumna Airport Road, Jabalpur -482005
Phone: 0761-279-4229/4223
E mail: ranlpu2020@iiitdmj.ac.in

Application Form

Name of the Applicant (first, last): ....

Gender: ....

Designation: ....

Name and Postal Address of the Organization / Institute/college:
....

....

City/town: ....

Email id: ....

Contact Number: ....

Do you need accommodation? (Yes/No) ....

Transfer details

Account No.: .... Date ....
Issuing Bank .... IFSC Code ....

Signature of the Applicant

Sponsorship

Prof./Dr./Mr./Mrs./Miss ....
.... is an employee of our institute and his/her application is hereby sponsored. The applicant will be permitted to attend the Short Term Course on "RANLPU 2020" at PDPM IIITDM Jabalpur during March 18-22, 2020, if selected.

Date:

Signature of Head of Institution/
Sponsoring Authority Designation:

Official Seal:

About PDPM IIITDM Jabalpur

IIITDM Jabalpur was established in 2005 with a focus on education and research in IT enabled Design and Manufacturing. Since its inception, PDPM IIITDM Jabalpur has been playing a vital role in producing quality human resources for contribution in India's mission of inclusive and sustainable growth. The Institute offers undergraduate, post graduate and PhD programmes in Computer Science and Engineering, Electronics and Communication Engineering, Mechanical Engineering, Design and PhD programmes in Mathematics and Physics. Under IIIT act, the Institute has been declared an Institute of National Importance in January 2015. The Institute campus is being developed on 250 acres of land close to Dumna Airport, Jabalpur.

About Jabalpur

The city of Jabalpur is known and considered as Sanskardhani, a "Cultural Center Place". It is a place of great historical and cultural importance. This Cultural capital of Madhya Pradesh is situated on the bank of the holy Narmada and Famous for Dhuandhar Falls and Marble Rocks in Bhedaghat, Hanumantal Bada Jain Mandir, Madan Mahal Fort, Rani Durgawati Museum. Simultaneously it is keeping pace with modern advanced knowledge. Jabalpur is an important junction for the Indian Railways. Jabalpur is a large Defence and Military Center. Jabalpur is also known for housing spiritual leaders Maharishi Mahesh Yogi and Bhagwaan Shri Rajneesh (Osho).This vibrantcitywith multiple dimensions of knowledge and liberation has a magnetic attraction for people all over the world. The Jageshwar Nath Shiv Temple at Bandakpur, near Damoh, Kundalpur Jain TeerthKshetra, near Damoha, Vishnu-Varaha Temple, Majholi, Pench National Park, Kanha Tiger Reserve, Bandhavgarh National Park are attractions near Jabalpur city.

Route to Jabalpur
The city of Jabalpur is well connected by road, rail and air with all the important places of India. Regular flights are provided by Air India & Spice Jet. Daily services are available to Bhopal, Delhi, Hyderabad and Mumbai. Jabalpur has direct connection to Mumbai, New Delhi, Bhopal, Kolkata, Nagpur, Patna etc. The IIITDM campus is only 10km from Jabalpur railway station and 5.5km from the Dumna airport.

RANLPU 2020

Who can attend :
The STC is open to faculty members, PhD and M. Tech students from Universities / Institutes / Engineering Colleges approved by MHRD/ AICTE / UGC.
Course fee:
- For faculty from AICTE / MHRD / UGC approved institute*: Rs 1000/- (refundable).
- For sponsored category+: Rs 3000/- (non-refundable).
- For external research scholar+: Rs 1000/- (non-refundable).
- For internal research scholar^: Rs 500/- (non-refundable).

How to Apply?
The registration fee to be paid online in Allahabad Bank, Branch Mehgawan, Jabalpur (IFSC Code ALLA0212433) Account No. 50388395415 in favor of QIP PDPM IIITDM Jabalpur through any nationalized bank and payable at Jabalpur, add remark "QIP IIITDMJ RANLPU 2020" for the transaction. After payment is made, participants need to send an email along with Application form is given in this brochure to ranlpu2020@iiitdmj.ac.in by March 10, 2020.

Important Dates :
Last Date of Registration   : March 10, 2020
Intimation of Selection   : March 12, 2020

General Information
1. The course fee will be returned back to the respective faculty only if he/she joins thecourse.
2. Since the number of seats is limited to 30, the selection will be made on first cum first serve basis
3. Intimation of Selection will be sent only through email.

Note
1. *Full financial support including TA/DA (train fare III-AC, food and accommodation during the STC).
2. +No financial support, attendee has to borne all the expenses. We may extend support for subsidized accommodation in Hostel Guest rooms and food in mess.
3. ^No food (lunch dinner and breakfast) except tea etc during breaks.
4. The course fee includes a kit containing the study material, tea and snacks.

Contact us
Dr. Ayan Seal and Dr. Atul Gupta
(Course Coordinators)
PDPM Indian Institute of Information Technology, Design and Manufacturing, Jabalpur,
Dumna Airport Road, Jabalpur -482005
Phone: 0761-279-4229/4223
E mail: ranlpu2020@iiitdmj.ac.in

Recent Advancements in Natural Language Processing and Understanding (RANLPU 2020)

March 18-22, 2020

Organized by
Computer Science and Engineering Department
PDPM Indian Institute of Information Technology, Design and Manufacturing Jabalpur
Jabalpur, MP, India